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Chapter 1 - Introduction

Congratulations on the purchase of your new Dolphin® 9500/9550 mobile computer!

You have made a wise choice in selecting the Dolphin, a device known worldwide for its ergonomic shape, light-weight, rugged design and single-handed data collection capabilities. [COMMENT ABOUT THE ADDITIONAL BENEFITS OF SOFTWARE/OS CAPABILITIES "The Dolphin 9500/9550 is a true mobile computing device with enhanced software application capabilities to suit your data collection needs"]

Ergonomics

The patented shape of the Dolphin 9500 fits into either hand comfortably with major function keys that are easy to access. The hand strap on the back panel ensures a secure hole enabling true, one-handed operation. The integrated pistol-grip handle on the Dolphin 9550 provides intuitive point-and-shoot scanning over extended periods of use.

Rugged Design

Dolphin 9500/9550 terminals are some of the most durable on the market. Their rugged design can withstand repeated five-foot drops onto a concrete floor, extreme temperatures, and high humidity, moisture, and dust conditions.

Mobile Computing

Built to last, the Dolphin's durably built case houses

- A 400MHz RISC processor for fast processing
- The Microsoft® Pocket PC operating system that is easily programmable with standard programming tools,
- eMbedded Visual Tools (includes eMbedded Visual C/C++® and eMbedded Visual Basic®) or Visual Studio.NET (Visual Basic.NET or Visual C#.NET).
- 64 MB RAM and 32 MB FLASH memory configuration for ample, secure data storage,
- An optional secure digital card for up to 256MB additional memory

Load up the Dolphin with your custom software application and the ultimate data collection solution for your business fits in the palm of your hand!

Additional Features

The Dolphin 9500/9550 features:

- Long-lasting Lithium Ion (L-Ion) batteries,
- A large easy-to-read 1/4 VGA backlit display (240 x 320) that can display text or graphics,
- A low-power, high-resolution digital image engine for omni-directional and auto-discrimination decoding of linear bar codes,
- Stacked Linear and matrix codes,
- Digital picture capability,
- · Optical Character Recognition (OCR) functionality, and
- · Co-existing 802.11b and/or Bluetooth radios for real-time data collection applications (optional).

This user guide

TheDolphin 9500/9550 Mobile Computer User Guide is designed to provide you with the information you need to make the most of your Dolphin terminal. Sections on the basics, safety, battery use, accessories, and service make this guide a complete source of information.

Safety

The Dolphin 9500/9550 mobile computer meets or exceeds the requirements of all applicable standards organizations for safe operation. However, as with any electrical equipment, the best way to ensure safe operation is to know the possible risks.

The following safety guidelines are designed to protect both you and others around you. Please read them carefully before using your Dolphin terminal.

Required Safety Labels

If Your Dolphin 9500/9550 is a Batch Terminal with an Imager

The following is the required safety label that appears on the back panel of Dolphin 9500/9550 batch terminals equipped with an imager.



If Your Dolphin 9500/9550 has a WLAN radio

The Dolphin® 9500/9550 RF terminal is designed to comply with the most current applicable standards on safe levels of RF energy developed by the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI) and has been recommended for adoption by the Federal Communications Commission (FCC).

802.11b and Imager

The following is the required safety label that appears on the back panel of the Dolphin 9500/9550 RF terminals equipped with a 802.11b radio and an imager.



Bluetooth

The following is the required safety label that appears on the back panel of the Dolphin 9500/9550 RF terminals equipped with a Bluetooth radio and an imager.



FCC Compliance

Dolphin 9500/9550 Batch Terminal

The Dolphin 9500/9550 Batch complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1 Devices may not cause harmful interference.
- 2 Devices must accept any interference received, including interference that may cause undesired operation.

Dolphin 9500/9550 RF Terminal with 802.11b or Bluetooth Radio

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2)this device must accept any interference received, including interference that may cause undesired operation.

In accordance with FCC 15.21, changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet helpful: "Something About Interference." This is available at FCC local regional offices. Our company is not responsible for any radio or television interference caused by unauthorized modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by our company. The correction will be the responsibility of the user. Use only shielded data cables with this system.

In accordance with FCC 15.21, changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION: To comply with FCC RF exposure compliance requirements, a separation distance of at least 2 inches (5 cm) must be maintained between the antenna of this device and all persons (excluding hands, wrists, feet and ankles), during normal operation.

This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

This device is not specified or designed for body-worn configurations. Use of any body-worn accessories may not ensure compliance with the FCC RF exposure guidelines.

Canadian Compliance

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la Classe B est conforme à la norme NMB-003 du Canada.

Regulatory and Safety Agency Approvals

Parameter	Specification
RF Approvals	
U.S.A Canada Europe Mexico	FCC Part 15.247 RSS 210 Certified ETS 300 328 Certified Telecom RCPHAD002-485

The CE mark on the product indicates that the system has been tested to and conforms with the provisions noted within the 89/ 336/EEC Electromagnetic Compatibility Directive and the 73/23/EEC Low Voltage Directive.

Dolphin 9500/9550 RF Bluetooth R&TTE Compliance Statement

The HHP Dolphin 9500RF and Dolphin 9550RF are in conformity with all essential requirements of the R&TTE Directive (1999/ 5/EC). This equipment has been assessed to the following standards:

Parameter

Specification

R&TTE

EN 300 328-2:2000 EN 301 489-1 (August 2000) EN 301 489-17 (Sept. 2000) EN 60950: 1992 Incl Amdt 1-4,11 EN 50361: 2001

This product is marked with (€168 0) in accordance with the Class II product requirements specified in the R&TTE

Directive, 1999/5/EC.

The equipment is intended for use throughout the European Community, but it's authorization for use in France is restricted as follows:

PAN European Frequency Range: 2.402 - 2.480 GHz

Restricted Frequency Range for use in France: 2.448 - 2.480 GHz

Dolphin 9500/9550 RF 802.11b R&TTE Compliance Statement

The HHP Dolphin 9500RF and Dolphin 9550RF are in conformity with all essential requirements of the R&TTE Directive (1999/ 5/EC). This equipment has been assessed to the following standards:

Parameter

R&TTE

Specification

EN 300 328-2:2000 EN 301 489-1 (August 2000) EN 301 489-17 (Sept. 2000) EN 60950: 1992 Incl Amdt 1-4,11 EN 50361: 2001

This product is marked with **CE3360** in accordance with the Class II product requirements specified in the R&TTE Directive. 1999/5/EC.

The equipment is intended for use throughout the European Community, but its authorization for use in France is restricted as follows:

PAN European Frequency Range: 2.402 - 2.480 GHz

Restricted Frequency Range for use in France: 2.448 - 2.480 GHz

Pacemakers, Hearing Aids and Other Electrically Powered Devices

Most manufacturers of medical devices adhere to the IEC 601-1-2 standard. This standard requires devices to operate properly in an EM Field with a strength of 3V/m over a frequency range of 26 to 1000MHz.

The maximum allowable field strength emitted by the Dolphin is 0.3V/m according to Subpart B of Part 1 of the FCC rules. Therefore, the Dolphin RF will have no effect on medical devices that meet the IEC specification.

Microwaves

The radio in the Dolphin RF terminal operates on the same frequency band as a microwave oven. Therefore, if you use a microwave within range of the Dolphin RF terminal you may notice performance degradation in your wireless network. However, both your microwave and your wireless network will continue to function.

The Dolphin Batch terminal does not contain a radio, and therefore, is not affected by microwave ovens.

Batteries

The following are general guidelines for the safe use and disposal of batteries:

- Use only the battery supplied with your Dolphin or a replacement battery supplied, recommended, or approved by HHP.
- Replace a defective battery immediately as it could damage the Dolphin terminal.
- Never throw a used battery in the trash. It contains heavy metals and should be recycled according to local guidelines.
- Don't short-circuit a battery or throw it into a fire. It can explode and cause severe personal injury.
- Excessive discharge damages a battery. Recharge the battery when your Dolphin indicates low battery power.
- Although your battery can be recharged many times, it will eventually be depleted. Replace it after the battery is unable to hold an adequate charge.
- If you are not sure the battery or charger is working properly, please send it to HHP or an authorized HHP service center, for inspection.

The Dolphin hand held computer meets or exceeds all applicable standards and has been manufactured to the highest level of quality.

Care and Cleaning of the Dolphin 9500/9550

When needed, clean the image engine window and the LCD display with a clean, non-abrasive, lint-free cloth.

Chapter 2 - Getting Started

Overview

The Dolphin 9500/9550 mobile computer/imager is designed for easy, single-handed mobile data collection. Each terminal is equipped with a PXA255 400MHz RISC processor built to run the Windows® Pocket PC platform.

Dolphin 9500/9550 computers are available with different types of 2D imagers, wireless radios, and memory configurations to meet most any mobile data collection requirement.

Offered with a memory configuration of 64 MB RAM and 32 MB non-volatile FLASH, the device has three keyboard options and a 240 x 320 pixel, backlit 1/4 VGA display available in color or monochrome.

The Dolphin 9500/9550 platform contains an integrated imager that can take images such as shipping manifests and recipient signatures in addition to decoding standard linear and two-dimensional symbologies.

Adapting the Dolphin to your environment

The Dolphin 9500/9550 terminal comprises one element of an enterprise data collection system. The 9500 line includes various models, peripherals, and accessories that you can combine to suit your exact needs. Dolphin 9500/9550.

Dolphin 9500/9550 Models and Options

HHP's family of Dolphin 9500/9550 mobile data collection terminals includes these models:

The Dolphin 9500 Batch terminal

This is a Windows® Pocket PC programmable mobile computer with a unique, ergonomic shape designed for single-handed use. The standard Dolphin 9500 is available with 64 MB RAM and 32 MB FLASH and integrated digital imager. An optional secure digital card offers up to 256MB of additional memory. The terminal's connector supports RS-232 and USB communications, external plug-in scanners, land line modems, and printers. It also features an IrDA infrared port to communicate data to portable printers and IrDA compliant devices.

The Dolphin 9550 Batch

This mobile computer offers the same enhanced productivity features of the Dolphin 9500 terminal with the added convenience of an integrated pistol grip-style form factor for high volume scanning applications.

The Dolphin 9500 RF and Dolphin 9550 RF

These terminals integrate the basic functionality of the Batch terminals with the choice of an 802.11b direct sequence radio that allows the terminal to communicate with a host computer via a radio wireless local area network (WLAN).

The Dolphin 9500/9550 WPAN

This terminal allows Bluetooth communications to Bluetooth enabled devices such as printers, mobile phones, access points, Bluetooth enabled PC's, etc.

Image Engine Options

Dolphin 9500/9550 terminals may be equipped with one of the following:

- IT4000 SR: red or green aimer option scans from 2.5 to 12.5 in. (6.3 to 32 cm.)
- IT4000 SF: red or green aimer option scans from 2.1 to 8.3 in. (5 to 21 cm.)

Dolphin 9500/9550 Peripherals

Each of the following items is sold separately to enhance your Dolphin 9500/9550 terminals capabilities.

Dolphin HomeBase™

A charging and communication cradle for communicating with host systems through an RS-232 serial port or USB port. Designed for stationary environments, it features an auxiliary battery well and power cable.

See Dolphin 9500/9550 HomeBase[™] on page 12-1.

Dolphin Mobile Base

A charging and communication cradle for communicating with host systems through an RS-232 serial port or USB port. Designed for use in mobile environments, it features a flexible mounting bracket, a cigarette lighter adapter, and power cable.

See Dolphin Mobile Base on page 14-1..

Dolphin QuadCharger™

Charges four batteries in under four hours.

See Dolphin QuadCharger on page 13-1..

Li-Ion Battery Pack

7.4v, 14.8 watt hour Lithium Ion rechargeable battery for the Dolphin. [does this go here?]

Contact HHP for more information. For details about how to install or use any of these peripherals, refer to the documentation provided with the product. Documentation may also be downloaded from our website www.hhp.com.

Dolphin 9500/9550 Accessories

Each of the following items is sold separately to enhance your Dolphin 9500/9550 terminals capabilities.

Dolphin HomeBase Power Adapter

Replacement power adapter for Dolphin HomeBase.

Charging/Communication Cables

SB and serial versions that connect the Dolphin 9500/9550 directly to both a peripheral device and a power source.

Dolphin Mobile Charger

Plugs the terminal directly into a vehicle cigarette lighter for power and battery charging. This accessory converts the 12 Volts out of the vehicle to the 9 Volts required by the terminal.

Protective Enclosure

Wraps around the terminal to protect it from wear and tear.

Protective Holster

Secures the terminal for mobile use.

Dolphin Mobile Mounting solution

Contact HHP for more information. For details about how to install or use any of these accessories, refer to the documentation provided with the product. Documentation may also be downloaded from our website www.hhp.com.

Bar Code Symbologies Supported

1D symbologies	Code 3 of 9, Interleaved 2 of 5, EAN, Codabar, Code 11, Code 128, Code 93, TCIF Linked Code 39 (TLC39), Universal Product Code (UPC), RSS.
2D symbologies	DF417, MaxiCode, Data Matrix, QR Code, EAN·UCC, Aztec Code, Code 49.
Composite codes	RSS-14, Codablock F, Aztec Mesa.
OCR codes	OCR A and OCR B.
Postal codes	Postnet and most international 4 state codes, Planet Code, British Post, Canadian Post, KIX (Netherlands) Post, Australian Post, Japanese Post.

Using the Dolphin 9500/9550 for the First Time

Follow these steps to begin using your Dolphin 9500/9550 terminal.

- 1 Unpack and check the terminal and documentation.
- 2 Charge the main battery pack and internal back-up battery.
- 3 Start the Dolphin mobile computer.
- 4 Follow the Pocket PC set-up instructions to setup the mobile computer.
- 5 Verify that the Dolphin 9500/9550 terminal is working properly.

Step 1. Unpack the Carton and Check Its Contents

Inspect the package to see that the following standard items and accessories (if ordered) are included:

- Dolphin 9500/9550 mobile computer
- Battery (7.4v Li-lon)
- Dolphin 9500/9550 Software Development Kit & User's Guide CD-ROM
- Microsoft companion CD-ROM
- Dolphin 9500 Quick Start Guide

Note: Be sure to keep the original packaging in the event that the Dolphin terminal should need to be returned for service.

Step 2. Charge the Main and Backup Batteries

WARNING! Use only battery packs provided by HHP. The use of any other battery pack in the Dolphin 9500/9550 terminal will void your warranty and may result in damage to the Dolphin terminal or battery. The terminal's Li-lon battery is shipped discharged of all power and must be charged for at least four hours before initial use. The battery may be charged using the HomeBase, the serial charging cable, or the USB charging cable.

Charging the Battery Using the HomeBase

- 1 Place the main battery pack in the Dolphin 9500/9550 terminal.
- 2 Place the terminal in the terminal well of the Dolphin HomeBase. The battery begins charging immediately.
- 3 Place the backup battery in the auxiliary battery well of the HomeBase. It begins charging immediately.

Note: Time to Charge: Four hours for the main battery in the terminal; 8 hours for the back-up battery.

Charging the Battery Using the Serial/USB Charging Cable

Plug cables into terminal connector, plug adapter into wall outlet

As the main battery pack charges, the internal back-up battery also charges. The back-up battery maintains the RAM and clock when the terminal's main battery pack is discharged or removed from the terminal.

Removing the Battery Pack

Follow these steps to remove the Dolphin battery pack.

- 1 Hold the Dolphin with the front panel (keyboard) facing down.
- 2 On the Dolphin 9500/9550 terminal, remove the handstrap by pushing its clip down and forward to unhook it from the terminal; move the strap away from the battery compartment.
- 3 Push the locking tab on the battery pack up and pull the battery out from the Dolphin terminal with a hinging motion.

Installing the Battery Pack

Follow these steps to install the Dolphin 9500/9550 battery pack.

1 The Dolphin 9500/9550 ships with the handstrap installed. Hold the terminal with the front panel (keyboard) facing down. Push the clip of the handstrap down and away from the terminal to unhook it; move the strap up and away from the battery compartment.

- 2 Insert the end without the locking tab into the top of the battery opening and snap the battery into place with a hinging motion. Press the battery into the well until the clip is engaged. The battery case serves as the back cover of the Dolphin.
- 3 Reattach the handstrap by positioning it down over the battery case and sliding the clip back into the place at the bottom end of the Dolphin 9500/9550.

Step 3. Start the Dolphin 9500/9550 Mobile Computer

Follow these steps to start your Dolphin 9500/9550 mobile computer.

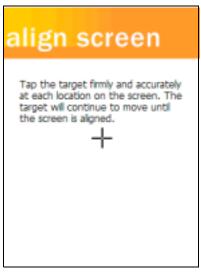
- 1 Install the charged battery pack in the Dolphin.
- 2 The red LED will come on and the green LED will blink for approximately three seconds. NOTE: DO NOT PRESS ANY KEYS WHILE THE TERMINAL IS BOOTING UP.
- 3 The terminal initializes and the HHP splash screen displays for a few seconds.



- 4 The system performs a hard reset.
- 5 Follow the instructions that appear when the display activates again.

Step 4. Align the Screen

After a hard reset, you are prompted to align the screen:

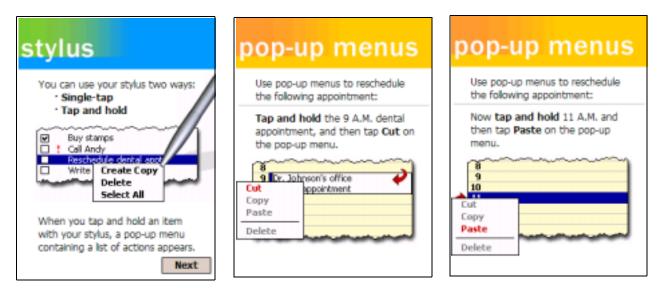


Tap the Target

- Use the stylus shipped with your Dolphin terminal to tap the target wherever it appears on the screen. Alignment should always be performed with a stylus designed for touchscreen applications. The small point is required for accurate calibration. The stylus should be oriented at a 90 degree angle to the screen surface.
- Press the stylus firmly into the center of the cross-hair target once and release. Do not "double-tap" the target. You will be prompted to repeat this process for a total of five targets.

Note: You can align the screen at any time in the future by going to Start > Settings > System tab > Screen > Align Screen.

After aligning the screen, follow the directions on the screen which take you through a simple exercise showing how to use the stylus and pop-up menus.



Note: HHP recommends using screen protectors for Dolphin 9500/9550 terminals; especially for those terminals used within applications that require high-volume interfacing with the touch display. Screen protectors help prevent damage to the touch panel display and are easily installed over it. Screen protectors can be purchased at any major computer retail store.

Step 5. Set the Time Zone

After screen alignment is completed, the Location screen shown below displays.

location
Select your time zone:
Time zone: GMT-8 Pacific US 🔹
Next

Setting Time Zone

Use the drop-down menu to select your time zone, and tap Next. This does not necessarily set the correct time; only the time zone. You set the time and date manually. See Setting the Time and Date on page -11.

After setting the time zone, you are finished with the initial setup of your Dolphin mobile computer. The system begins autoinstalling.

Step 6. Autoinstall

After setting the time zone, your Dolphin 9500/9550 begins installing programs automatically. For each set of programs that load, you should see a small install screen with a bar going across to indicate that a program is loading. Wait until the last program loads and you should see the starting screen.

Programs installed

All configurations of the Dolphin 9500/9550 install the HHP Demos and HHP utilities. If the terminal is RF or Bluetooth, the appropriate radio drivers and utilities for each radio install.

Warm boot

When the autoinstall is complete, the system performs a warm boot. When back on, the terminal opens to the starting screen.



Setting the Time and Date

It is a good idea to set the time and date now before you begin using the device. You must set the time zone first. To set the time and date, go to **Start** > **Settings** > **Systems** tab > **Clock** to set the date and time.

🎊 Settings	📢 3:29 🐽
Clock	
Home	
. 12 .	GMT-5 Eastern US 📼
••••3	3 :29:32 PM 🔺 🔻
· · ·	8 /11/2003 🔹
· 6 []] ·	
🔿 Visiting	
· 12 ·	GMT+1 Paris,Madrid 👻
9 - 4 3	9 (29:32 PM 🔺 🔻
· ·	8 /11/2003 🔹 🔻
6	
Time Alarms	
	=

Note: You need to re-set the time and date after every hard reset of the terminal.

Step 7. Verifying That Your Dolphin 9500/9550 is Working Properly

After you have completed the initial setup and set the time and date, the Dolphin 9500/9550 terminal is ready to use. Run the Image and/or Scan demo to verify that the terminal is operating properly and test the imaging functionality. To verify imaging:



- 1 Go to Start > HHP Demos > Image Demo
- 2 Press the SCAN key. A preview of the image appears on the terminal's screen.
- 3 Release the SCAN key. The image is captured.
- 4 Press the ESC key to go back to the main menu.

To verify scanning:

1 Go to Start > HHP Demos > Scan Demo



- 2 Press the SCAN key, aim the terminal at a bar code and the red SCAN LED illuminates. When a good scan is obtained, the green SCAN LED illuminates and the terminal beeps. Information about the bar code scanned appears on the screen.
- 3 Press the ESC key to exit the demo and return to the main menu.

Putting the Dolphin in Suspend Mode

To conserve power, press the Power key to put the Dolphin terminal into suspend mode. The terminal may also go into "suspend mode" when it is inactive for a programmed period of time, as defined by your application. Press the SCAN key to wake the Dolphin terminal from suspend to continue normal operations.

The Dolphin terminal also goes into sleep mode if you remove the main battery pack. To wake the Dolphin terminal from suspend mode, install a charged battery and press the SCAN key.

WARNING! If the main battery and back-up battery are ever fully discharged of power, the terminal will perform a hard reset when power is restored. The terminal will be restored to its original state. All data stored in RAM memory will be lost.

Resetting the Dolphin (Hard Reset)

Under some conditions, you may need to reset the Dolphin 9500/9550 terminal with a hard reset. These may include:

- · Resetting the operating system
- Resetting the terminal back to factory defaults
- Resetting the terminal after a bootloader, keyboard, and kernel upgrade

CAUTION! A hard reset erases all the data stored in RAM memory. You will lose all data.

To perform a hard reset:

- 1 Press and hold the Control (CTRL) and the Escape (ESC) keys for approximately 10 seconds.
- 2 Release the keys and the terminal resets. The red LED comes on and the green LED blinks for approximately 3 seconds.
- **3** When you turn on the terminal again, it will need to be reconfigured. Refer to Start the Dolphin 9500/9550 Mobile Computer on page -7.

Resetting the Dolphin (Soft Reset)

There are times when you may need to warm boot the Dolphin 9500/9550 terminal, such as after loading a software application that requires a warm boot after installing new software.

To warm boot the Dolphin 9500/9550 terminal:

- 1 Press and hold the Control (CTRL) and the SHIFT (SFT) keys for approximately 10 seconds, then release.
- 2 Release the keys and the terminal resets. The red LED comes on and the green LED blinks for approximately 3 seconds.
- **3** The terminal will initialize and after a few seconds will display the Today screen.

System Features

Processor

The Dolphin 9500/9550 terminal is equipped with an Intel® X-Scale 400MHz RISC microprocessor that runs on a 100 MHz BUS and is one of the most powerful Pocket PC platforms on the market.

Operating System

Microsoft® Pocket PC is a compact, highly efficient, scalable operating system. Its open architecture facilitates development of applications for energy-efficient data collection devices like the Dolphin 9500/9550 terminal.

Memory

Main Board

The memory configuration for the Dolphin 9500/9550 terminals is 64 MB RAM and 32 MB non-volatile FLASH.

Secure Digital Card (SD)

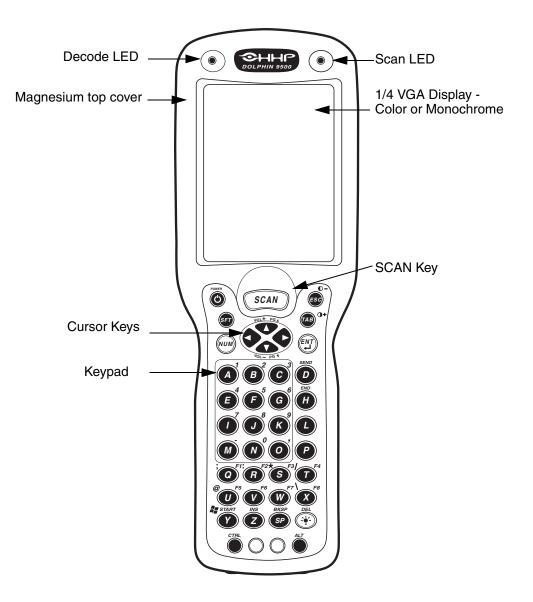
Dolphin 9500/9550 terminals have one user accessible secure digital (SD) card interface for additional application and data storage capacity. Additional secure digital upgrades of 64 MB, 128 MB, and 256 MB are available. The secure digital card socket is user accessible while preserving the terminal's environmental rating.

Wireless Radio Options

Radio options for Dolphin 9500/9550 terminals include an integrated 802.11b and integrated Bluetooth wireless network adapter.

Front Panel Features

This section describes features on the Dolphin 9500/9550 terminal front panel.



LEDs

There are two red light emitting diodes (LEDs) located at the top of the LCD display. Both are software programmable.

Scan LED

The LED located in the upper right corner is the Scan LED. It illuminates when you press the SCAN key to activate the scan engine.

Decode LED

The green LED located in the upper left corner of the LCD display is the Decode LED. It illuminates when the bar code software successfully decodes a scanned bar code.

1/4 VGA Display

The Dolphin 9500/9550 screen is a 240 x 320 pixel, 3.5" 1/4 VGA display with an industrial protective lens. It is equipped with a touchscreen that can be activated with a stylus (included with the terminal) or finger.

The display is available in 16-level grayscale monochrome and 262, 144 color TFT versions.

The backlight for both the electroluminescent, monochrome display and white LED color display enable viewing in lowlight conditions. To conserve power, the backlight can be programmed to automatically turn off after a prescribed amount of time; see page 4-15. The contrast may be adjusted with the contrast keys.

SCAN Key

The SCAN key is centrally located for easy access with the right or left hand. When pressed, the SCAN key activates the scan. It also functions as an on or system wakeup control for the terminal.

On the 9550 terminal, scan activation and system wakeup is also activated by pressing the trigger on the handle.

Cursor Keys

The centrally located cursor keys allow full Windows® Pocket PC navigation.

Three Keyboard Options

The Dolphin 9500/9550 keyboards feature durable keys that are backlit for easy use in dark and dim lighting conditions. The silver background enhances the readability of the numeric keys. Important keys, such as the SCAN key, are centrally located for both right- and left-hand use, easy imaging, bar code scanning, and application navigation.

There are three keyboard options for the Dolphin 9500/9550 terminals:

35-key numeric/alpha keyboard

43-key numeric/alpha keyboard

56-key alpha/numeric keyboard





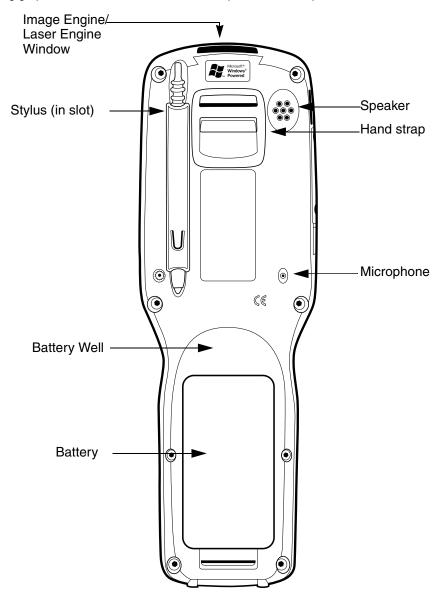
For more specific information about each keyboard, see A on page A-1..

Back Panel Features

Note: The safety labels on the back panel are specific to how each individual terminal is equipped.

Dolphin 9500

This following graphic describes features on the back panel of the Dolphin 9500 terminal.



Note: Because the back panel of the Dolphin 9550 features a pistol-grip handle, it is featured in the following section

Image Engine/Laser Engine Window

Dolphin 9500/9550 terminals come equipped with an image engine that reads and decodes linear, stacked linear (PDF417), and 2D matrix bar code symbologies. With the latest CMOS-based technology, the engine works like a digital camera and enables digital image capture, signature capture and reading OCR characters.

Digital images taken with the Dolphin 9500/9550 terminal have a maximum image size of 640 x 480 pixels and may have up to a 256 gray scale image definition. Files formats supported for image storage include Bitmap (.bmp), JPEG (.jpg) and Portable Network Graphics (.png).

For a frontal view of the Image Engine/Laser Engine Window, see Image Engine/Laser Engine Window - front view on page 3-6.

Speaker

The Dolphin 9500/9550 terminal has an internal speaker that sounds audio signals as you scan bar code labels and enter data. The operating frequency range is 500Hz at 71 dB up to 80 dB. The speaker can also be used for playing sounds (e.g., WAV files).

Hand Strap

The Dolphin 9500 has an integrated elastic hand strap providing a comfortable, secure grip on the terminal. If desired, the strap may be adjusted or removed.

Microphone

Dolphin 9500/9550 terminals feature an internal microphone that provides audio input to the terminal.

Battery/Battery Well

The Battery Well is a recessed area on the back of the Dolphin that holds the Li-Ion battery pack. For more information, see Batteries on page 3-10..

Stylus

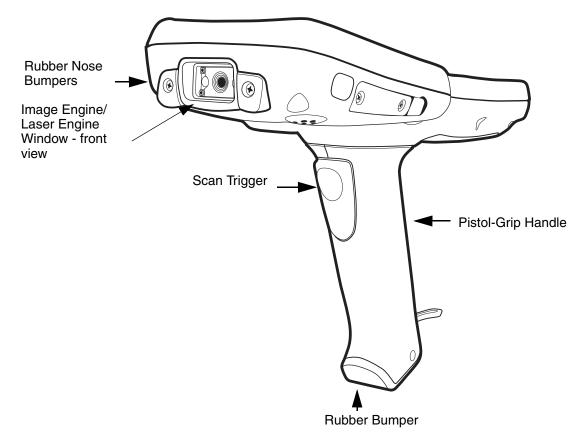
The stylus is used to operate the touchscreen display. The back panel features this storage slot to hold the stylus when not in use.

Dolphin 9550

This section describes the back panel of the Dolphin 9550. It contains the same features as the Dolphin 9500 described in the previous section with the additions of

- a pistol-grip handle to hold and maneuver the terminal with greater ease,
- a scanner/imager trigger on the handle that activates the scan, and
- rubber bumpers that enable the terminal to rest safely and securely when not in use.

The following is a graphic of the 9550 bottom panel.



Rubber Nose Bumpers

See Rubber Nose Bumpers on page 3-7.

Image Engine/Laser Engine Window

This is the front view of the window. For more information, see Image Engine/Laser Engine Window on page 3-4.

Scan Trigger

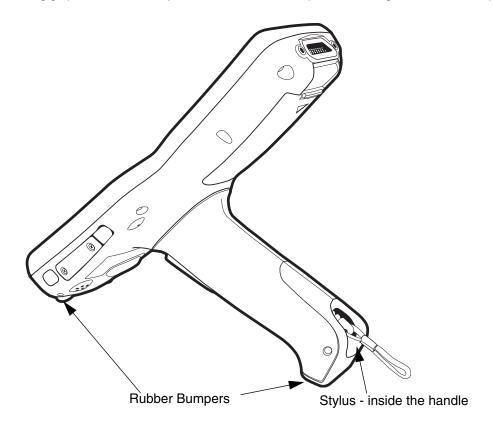
The scan trigger provides comfortable two-finger scan activation.

Pistol Grip Handle

The comfortable, ergonomic handle is designed especially for use in rapid, high volume scanning applications and features rubber surface details for improved handle grip, comfort, and shock absorption.

Rubber Nose Bumpers

The rubber bumpers enable the Dolphin 9550 to rest in a stable, nose-down position when the unit is set on a flat surface. The following graphic shows the Dolphin 9550 in a nose-down position, resting on its rubber bumpers.

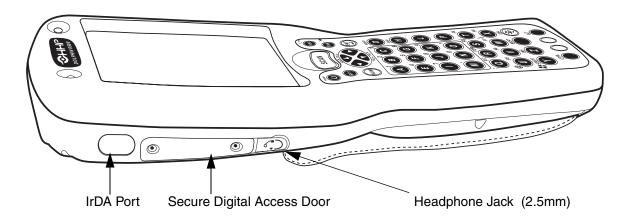


Stylus

The stylus is used to operate the touchscreen display. The Dolphin 9550 back panel stores the stylus inside the pistol-grip handle.

Side Panel Features

The following graphic shows the left, side panel.



IrDA Port

The IrDA (Infrared Communications) Port allows the Dolphin to communicate with IrDA-enabled devices such as PC's, printers, modems, or other Dolphin 9500/9550 terminals. The maximum speed is 115kbps.

Secure Digital Memory

Dolphin 9500/9550 terminals have an industry standard Secure Digital (SD) interface. The Secure Digital Access Door seals this interface from moisture and particle intrusion and provides secure storage for read/write data.

The SD is user-accessible. The user can gain access to it by opening the access door manually.

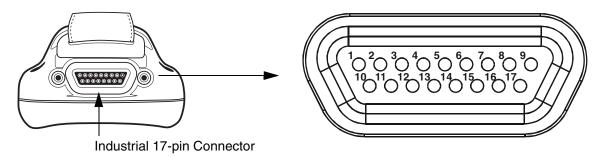
64K, 128K, and 256K memory cards are available.

Headphone Jack

Dolphin 9500/9550 terminals contains a 2.5mm audio plug for stereo audio playback. This jack can also serve as a standard headset interface for audio/voice.

Bottom Panel Features

This following graphics describe the bottom panel of the Dolphin 9500/9550.



<u>Pin #</u>	Description
1 2	+USB PWR
3	N/C
4	N / C
5	N / C
6	N / C
7	GND
8	5V OUT
9	DTR
10	-USB
11	USB DET
12	RI
13	DSR
14	RXD
15	RTS
16	TXD
17	CTS

NOTE: SIGNALS REFERENCED FOR A DTE DEVICE

Industrial 17-pin Connector

The bottom panel of the Dolphin 9500/9550 features a custom, industrial 17-pin connector. This serial port is designated as COM port 1. When seating in the HomeBase or Mobile Base, the battery in the battery well is charged and the terminal powered through this connection. If the base unit is connected to a desktop computer, this connector also transmits data through ActiveSync.

The connection to the peripheral can be RS-232 or USB. The maximum RS-232 speed is 115kbps with seven baud rate settings. USB communication runs at 2 Mbps. This port also provides power out (to peripheral devices) at 500mA at 5V.

With the addition of the special cable that connects directly to this serial port, Dolphin 9500/9550 can connect and provide power to a peripheral device directly.

Batteries

CAUTION! Use only the 7.4V battery packs provided by HHP. The use of any other battery pack in the Dolphin 9500/9550 terminal will void your warranty and may result in damage to the Dolphin terminal or battery.

There are two batteries in the Dolphin 9500/9550:

Internal Backup Battery

Located inside the terminal, this battery backs up the RAM and clock when the Li-Ion main battery is discharged or removed from the terminal. The internal backup battery is not user replaceable.

Li-Ion Battery Pack

This battery pack is the primary power source for operating the Dolphin terminal. For the location of the Li-Ion battery on the terminal, see Battery/Battery Well on page 3-5.

Internal Li-Ion Backup Battery

The Dolphin's internal backup battery prevents the terminal from being reset if you need to remove and replace the main battery pack. The battery retains RAM data and allows the real-time clock to remain operational for up to 30 minutes when the battery pack is removed.

If the backup battery becomes fully discharged of power after the initial charge cycle, it will require a minimum of 10 hours of charging time to perform and maintain the system as described above.

The internal backup battery is charged by the Dolphin's main battery pack when an external power source such as the Dolphin HomeBase, is not available. If the terminal is left without the main battery pack for more than 30 minutes, the internal backup battery will need to be recharged.

Note Data and programs stored in FLASH remain safe even if the internal backup battery fails. However, you must reset the real-time clock using the Pocket PC Time and Date function.

Follow these guidelines to maximize the life of the Dolphin's backup battery:

- Keep a charged Li-Ion battery pack in the Dolphin. The internal battery will prematurely discharge if there is not at least a partially charged battery in the terminal.
- Put the Dolphin in the HomeBase connected to power when the terminal is not in use.

Main Battery Pack

The 7.4V, 14.8 watt hour Lithium Ion (Li-Ion) battery pack is the primary power source for the Dolphin.

The Li-Ion battery is designed to operate in a temperature range of -10 to 50°C (14 to 122°F). For maximum performance, charge the batteries between 10 and 35°C (50 and 95°F).

Managing Battery Power

Data and files saved on the Dolphin 9500/9550 terminal may be stored in RAM, so it is important to maintain a continuous power supply to the terminal. When the main battery pack becomes low, the Low Battery Charge icon will appear in the notification tray at the top of the screen. The Critical icon will appear when the battery is critically low. There is also a Low Battery icon that will appear when the back-up battery is low.

Letting the back-up battery become fully discharged will cause the terminal to lose all data in RAM. Therefore, you should keep a charged battery pack in the Dolphin at all times to conserve the internal back-up battery. When you remove a battery pack, insert another charged pack in the Dolphin. The internal battery will prematurely discharge if there is not at least a partially charged battery in the terminal.

The battery status indicator displays in the notification tray when the battery is low or critically low. If there is no indicator, the battery is adequately charged.

If the main battery is low and the terminal is in suspend mode, pressing the SCAN or Power button will not wake up the Dolphin 9500/9550 terminal; you must replace the discharged battery with a fully charged battery.

Setting Critical and Low Battery Points

The Dolphin 9500/9550 may be programmed to display warnings when the battery reaches critical and low battery points. There are two entries defined in the registry. The specific settings are:

[HKEY_LOCAL_MACHINE\System\CurrentControlSet\Control\Power]

"CriticalBatt"=dword:a

"LowBatt"=dword:19

"CriticalBatt"=dword:F

This sets the Critical Battery point to 15 percent (a hex = 15 decimal). The critical battery is the point at which the customer is warned that the battery charge is very low. This warning will be posted every 3 minutes until the situation is corrected.

"LowBatt"=dword:19

This sets the Low battery point to 25 percent (19 hex = 25 decimal). The low battery setting is the point at which the user is alerted that the battery is low. The user is notified only once for a low battery.

These are the default values. Developers can set these parameters from 0 (no warning at all) to 99 (would nearly always warn). The warnings do not appear when the terminal is on external power.

Checking Battery Power

The Battery Status screen displays information about current battery status and allows you to set options that can conserve battery power.

To open the Battery Status screen:

1 Select Start>Settings>System>Power.

- 2 Select your preferences.
- 3 Tap OK to save the changes and exit.

Charging the Battery Pack

You can charge the Dolphin's main battery pack with one of the following methods:

- Place the battery pack in the Dolphin 9500/9550 terminal and then place the terminal in the terminal well of a HomeBase or Mobile Base.
- Place the battery pack in the Dolphin Quad Battery Charger.
- Place the battery back in the Auxiliary Battery Well of the HomeBase.
- Connect a charging/communication cable to the Dolphin 9500/9550 terminal and plug into a power outlet.

Storing Batteries

To maintain optimal performance from batteries, follow the guidelines below when storing them:

Avoid storing batteries outside the specified range of -4 to 104° F (-20 to 40°C) or in extremely high humidity.

For prolonged storage, do not keep batteries stored in a charger that is connected to a power source.

Technical Specifications for the Dolphin 9500

System Architecture	
Processor:	Intel® X-Scale PXA255 400MHz
SDKs:	Dolphin SDK for Pocket PC 2002 with embedded VB or C++, Dolphin .Net SDK for Pocket PC 2002 with Visual Studio.Net, VB.Net, C#.NET, and.NET Compact Framework, HHP libraries and utilities.
Operating Platform:	Microsoft® Pocket PC Professional Edition
Third-Party Software:	Support for Connect Terminal Emulation software (TNVT, 3270, 5250)-Insignia Solutions Jeode JVM
Memory:	64MB RAM x 32MB Non-volatile Flash
Data Inputs	
Imager/Scanner:	IT4000 SR scans from 2.5 to 12.5 in. (6.3 to 32 cm.) Specifications are for 100% UPC Code.
1D Symbologies Read:	Code 3 of 9, Interleaved 2 or 5, EAN, Codabar, Code 128, Plessey, Code 11, Code 93, UPC, RSS
2D Symbologies Read:	PDF417, MaxiCode, Data Matrix, QR, RSS Composite, EAN.UCC, Aztec, OCR
OCR Fonts:	OCR-A, OCR-B
Keyboard:	Three backlit keyboard options: 35-key numeric-shifted alpha, 43-key alpha-shifted numeric, and 56-key full alpha/numeric
Data Outputs	
Display:	1/4 VGA (240 x 320 portrait mode) color TFT LCD display with industrial touch panel OR 1/4 VGA (240 x 320 portrait mode) monochrome display with industrial touch panel
I/O Ports:	Industrial mechanical connector – supports charging and communications (USB & serial) via cradles or AC adapter / comm cable, IrDA port-Integrated, Speaker-Integrated, Microphone-Integrated, Headset-jack
Mass Storage:	Optional 64MB, 128MB, 256MB Secure Digital (SD) memory - user accessible
Wireless Radio Options	
WLAN:	IEEE 802.11b DSSS WLAN radio
WWAN:	GSM/GPRS WWAN radio with accessible SIM card
WPAN:	Bluetooth™ radio
Physical	
Dimensions:	9.6"L x 3.45"W x 1.66"D at display (24.53 x 8.76 x 4.23 cm), 2.7"W x 1.5"D at grip (6.9 x 3.8 cm)
Weight:	Batch: 19.7 oz. (558 gm); WLAN: 20.2 oz. (573 gm), WPAN: 20 oz. (567 gm), WLAN/ WPAN: 20.3 oz. (576 gm)
Operating Temperature:	14 to 122°F (-10°C to 55°C)
Storage Temperature:	-22 to 176°F (-30°C to 80°C)
Humidity:	95% humidity, non-condensing
Electrical Static Discharge:	15 kv on all surfaces
Impact Resistance:	Withstands multiple 5ft. (1.5m) drops onto concrete
Environmental Resistance:	Independently certified to meet IP-64 standards for moisture and particle resistance

Power:	Lithium-Ion battery technology – 7.4V, 14.8 watt-hour main battery	
Other:	Integrated ergonomic stylus - optional tether; removable, integrated hand strap	
Peripherals/Accessories		
Dolphin HomeBase™	Charging/communications cradle. Data transfer via RS-232 serial or USB port.	
Dolphin Mobile Base	Charging/communication cradle. Data transfer RS-232 serial or USB port. Powers out at 5 volts.	
Dolphin Mobile Charger	Plugs into vehicle cigarette lighter for charging.	
Dolphin NetBase	????????????	
Cables	USB and serial	
Li-Ion Battery Pack	7.4v, 14.8 watt hour Lithium Ion rechargeable battery for the Dolphin.	
Dolphin QuadCharger [™] Charges four batteries in under four hours. One slot doubles as an analyzer.		
Regulatory Approvals		
FCC-CE-Radio Country: US/Canada, R&TTE		
Microsoft, Windows, and the V Intel is a registered trademark	dCharger are trademarks of HHP. Vindows Logo are registered trademarks or trademarks of Microsoft Corporation. of Intel Corporation. are owned by Bluetooth SIG, Inc., U.S.A. and licensed to HHP.	

Technical Specifications for the Dolphin 9500

Chapter 4 - Using the Dolphin 9500/9550 Mobile Computer

Entering Data

To enter data, you may:

- Use the 35-key, 43-key or 56-key keypads
- Use the soft input panel (SIP) to enter typed text, either by using the soft keyboard or other input method.
- · Write directly on the screen.
- Draw pictures on the screen.
- Collect images or scan bar code data into data fields
- Use Microsoft® ActiveSync® to synchronize or copy information from your desktop computer to your device. For more information on ActiveSync, see ActiveSync Help on your desktop computer.

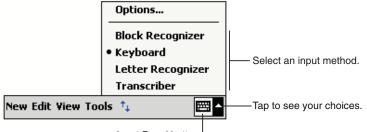
Entering Text Using the Input Panel

HHP recommends using screen protectors for Dolphin 9500/9550terminals to protect the input panel display; especially for those terminals used for applications that require high-volume interfacing with the touch display. Screen protectors will help prevent damage to the touch panel display and are easily installed over the display. Screen protectors can be purchased at any major computer retail store.

Note: For touch screen input, only use a stylus or your finger. Use of other objects, such as paper clips, pencils, or ink pens can damage the input panel and will void the warranty.

Use the input panel to enter information in any program on the Dolphin mobile computer. You can either type using the soft keyboard or write using Letter Recognizer, Block Recognizer, or Transcriber (if installed from the Dolphin 9500/9550Companion CD). In either case, the characters appear as typed text on the screen.

To show or hide the input panel, tap the Input Panel button. Tap the arrow next to the Input Panel button to see your choices.

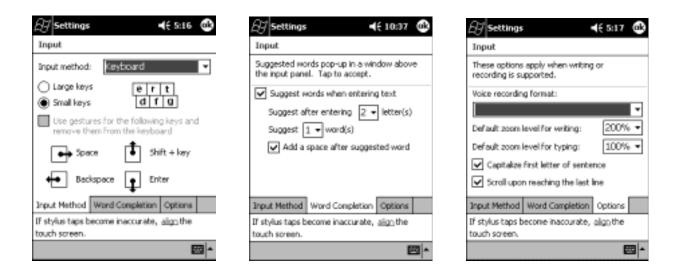


Input Panel button.

When you use the input panel, your terminal anticipates the word you are typing or writing and displays it above the input panel. When you tap the displayed word, it is inserted into your text at the insertion point. The more you use your Dolphin 9500/9550 terminal, the more words it learns to anticipate.

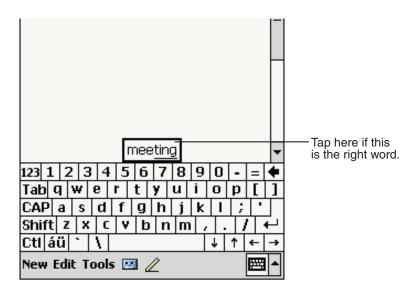
To change word suggestion options, such as the number of words suggested at one time, tap **Start**> **Settings**>**Personal** >**Input**> **Word Completion** tab.

Input Panel Options



Using the Soft Keyboard

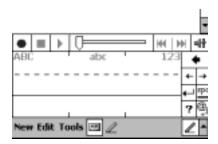
- 1 Tap the arrow next to the Input Panel button and then Keyboard.
- 2 On the soft keyboard that is displayed, tap the keys with your stylus.



Using the Letter Recognizer

With Letter Recognizer you can write letters using the stylus just as you would on paper.

- 1 Tap the arrow next to the Input Panel button and then Letter Recognizer.
- 2 Write a letter in the box.

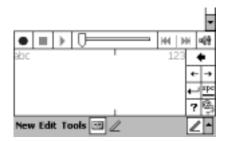


When you write a letter, it is converted to typed text that appears on the screen. For specific instructions on using Letter Recognizer, with Letter Recognizer open, tap the question mark next to the writing area.

Using the Block Recognizer

With Block Recognizer you can input character strokes using the stylus that are similar to those used on other devices.

- 1 Tap the arrow next to the Input Panel button and then **Block Recognizer**.
- 2 Write a letter in the box.



When you write a letter, it is converted to typed text that appears on the screen. For specific instructions on using Block Recognizer, with Block Recognizer open, tap the question mark next to the writing area.

Selecting Text

To edit or format typed text, select it by dragging the stylus across the text. You can cut, copy, and paste text by tapping and holding the selected words and then tapping an editing command on the pop-up menu, or by tapping the command on the **Edit** menu.

Writing on the Screen

In any program that accepts writing, such as the Notes program, and in the **Notes** tab in Calendar, Contacts, and Tasks, you can use your stylus to write directly on the screen as you would on paper. You can edit and format what you've written and convert the information to text at a later time.

To write on the screen, tap the Pen button to switch to writing mode. This action displays lines on the screen to help you write.

🎊 Notes	-(€ 9:39	•
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		_
		_
New Edit Tools 🖭	2	 ∰_
	Tap the Pen butto your stylus like a	

Note: Some programs that accept writing may not have the Pen button. See the documentation for that program to find out how to switch to writing mode.

To select writing

If you want to edit or format writing, you must select it first.

- 1 Tap and hold the stylus next to the text you want to select until the insertion point appears.
- 2 Without lifting, drag the stylus across the text you want to select.

If you accidentally write on the screen, tap **Tools**, then **Undo** and try again. You can also select text by tapping the **Pen** button to deselect it and then dragging the stylus across the screen.

You can cut, copy, and paste written text in the same way you work with typed text: tap and hold the selected words and then tap an editing command on the pop-up menu, or tap the command on the **Edit** menu.

Convert Writing to Text

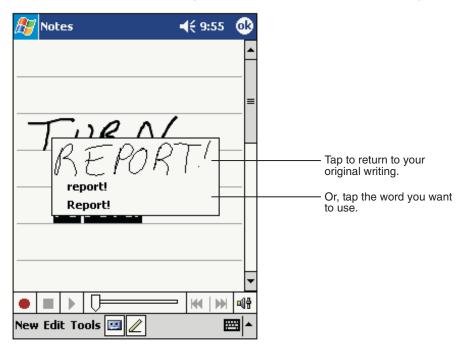
To convert writing to text, tap **Tools** and then **Recognize**.

If you want to convert only certain words, select them before tapping **Recognize** on the **Tools** menu (or tap and hold the selected words and then tap **Recognize** on the pop-up menu). If a word is not recognized, it is left as writing.

🎊 Notes	4 € 9:40	•	🔊 Notes	4 € 9:41	•
					
TURN	/	≡	TUR		≡
I N REPOR	37 !		repor		
Cut					
Copy		_			
Paste Clear		_			_
Recognize					
Alternates					
New Edit Tools 🖭 🖉	Ē	≝ ^	New Edit Tools 🖭 🖉	r E	≊ ^
	Select the tex to convert an pop-up menu	d tap F	vant lecognize on the	The writing is turn text.	ed into

Alternate words

If the conversion is incorrect, you can select different words from a list of alternates or return to the original writing. To do so, tap and hold the incorrect word (tap one word at a time). On the pop-up menu, tap **Alternates**. A menu with a list of alternate words appears. Tap the word you want to use, or tap the writing at the top of the menu to return to the original writing.



Tips for Getting Good Recognition

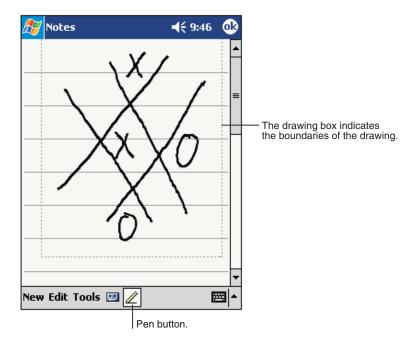
- Write neatly.
- Write on the lines and draw descenders below the line. Write the cross of the "t" and apostrophes below the top line so that they are not confused with the word above. Write periods and commas above the line.
- For better recognition, try increasing the zoom level to 300% using the **Tools** menu.
- Write the letters of a word closely and leave big gaps between words so that the device can easily tell where words begin and end.
- Hyphenated words, foreign words that use special characters such as accents, and some punctuation cannot be converted.
- If you add writing to a word to change it (such as changing a "3" to an "8") after you attempt to recognize the word, the writing
 you add will not be included if you attempt to recognize the writing again.

Drawing on the Screen

Drawing on the screen is similar to writing on the screen. The difference between writing and drawing on the screen is how you select items and how they can be edited.

To create a drawing, cross three ruled lines on your first stroke. A drawing box appears. Subsequent strokes in or touching the drawing box become part of the drawing. Drawings that do not cross three ruled lines will be treated as writing.

For example, selected drawings can be resized, while writing cannot.



Note: You may want to change the zoom level so that you can more easily work on or view your drawing. Tap **Tools** and then a zoom level.

Selecting a Drawing

To edit or format a drawing, tap and hold the stylus on the drawing until the selection handle appears. To select multiple drawings, deselect the Pen button and then drag to select the drawings you want.

You can cut, copy, and paste selected drawings by tapping and holding the selected drawing and then tapping an editing command on the pop-up menu, or by tapping the command on the **Edit** menu. To resize a drawing, make sure the Pen button is not selected, and drag a selection handle.

Using My Text

When using Inbox or MSN Messenger, use My Text to quickly insert preset or frequently used messages into the text entry area. To insert a message, tap **My Text** and tap a message.

🎊 MSN Mess	senger	4 € 1:58	•
You are chatt		m	
Kim Akers sa	ys:		
Hi. Can you mee	et at 2:00?		
Adam says:			
I have another -	appointment sc	heduled for 2	2:00,
but am availab	Yes.		
	No.		
	I can't talk	right now.	
	I'll be right	there.	Id
	I'm running	late.	_
Last message	Where are	you?	_
123 1 2 3 Tab 0 w 8	Hi.		•
Tabiqiwie CAPiaisiu	Goodbye.		
Shift z x	Call me late	r.	
Ctláü	I love my P	ocket PC!	Ŧ
Tools Chats	1y Text <u>パ</u>	E	≝ ^
		o select a ritten messa	20

Using My Text

Note: You can add text after inserting a My Text message before sending it.

To edit a My Text message, in the **Tools** menu, tap **Edit** and then tap **My Text Messages**. Select the message you wish to edit and make desired changes.

Via the Keyboard

Data can be entered into the Dolphin 9500/9550 terminal via the keyboard. The Dolphin 9500/9550 has three keyboard options: 43-key alpha shifted numeric, 35-key numeric shifted alpha, and 56-key full alpha/numeric.

To enter data, press the appropriate key and the corresponding number or letter appears on the screen.

Refer to A for a list of keyboard shortcuts for navigating the keyboard.

Imaging

Dolphin 9500/9550 terminals are equipped an image reader that reads 1D and 2D bar codes, OCR characters and can capture images, such as signatures and gray scale pictures. The imager features a green aiming beam that is used to aim the image reader against the bar code or item being read.

The terminal supports two types of image decoding for use in various bar code reading and imaging applications: full-area imaging and Advanced Linear Decoding (ALD).

Full-area imaging

Full-area imaging provides omni-directional reading of linear and non-linear 1D and 2D bar codes, OCR, signature capture, and picture taking. When reading all bar code types using full-area imaging, a positive read can be obtained from most any position. To achieve the best read, the aiming beam should be centered horizontally across the bar code.

ALD

ALD provides fast reading of linear and stacked linear bar codes. To achieve a positive read when reading linear 1D and PDF417 bar codes, the imager's aiming beam should be centered horizontally across the bar code.

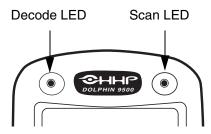
When ALD is enabled, the reader does not read matrix or postal coded.

Decoding method

The decoding method used in a particular scanning or image capture application is determined by the application developer and cannot be changed by the end user.

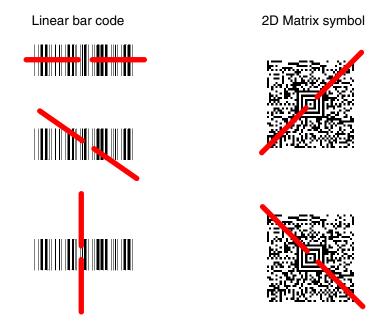
Decoding a car code - aiming the beam

- 1 Press the **SCAN** key on the Dolphin 9500/9550 to project the imager's green aiming beam. The aiming beam should be oriented in line with the bar code to achieve the quickest read. A range of 4-10 inches (10-25 cm) is recommended.
- 2 Center the aiming beam over the bar code. The red Scan LED illuminates when the user presses the SCAN key, and the green Decode LED illuminates when a bar code is successfully decoded and the terminal beeps.



Note: On the Dolphin 9550, you can use the Scan Trigger instead of the SCAN key. For more information, see Scan Trigger on page 3-6.

Refer to the following chart for beam angle information



The aiming beam is smaller when the terminal is held closer to the code and larger when it is farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit. Symbologies with larger bars or elements (mil size) should be read farther from the unit.

Capturing Images

The image-capture process is an intuitive, split-second operation for experienced users. By following the basic guidelines, new users can easily develop their own technique and, with practice, quickly learn to adapt it to different circumstances.

Image preview

When the scan process is initiated, the Dolphin 9500/9550 displays a preview of the image on the touchscreen. This is a live video image of what the imager is currently viewing. This enables you to improve your aim and verify the image before you take it.

The live video preview has a slightly degraded appearance compared to the captured image. This is normal.

The Scan key



The Scan key captures images on both the Dolphin 9500 and the Dolphin 9550 terminals. It is the only way to capture an image on the 9500, while on the 9550, you can also use the scan trigger on the pistol-grip handle. The following highlights both methods.

Image quality and file size

The image quality and related file size are determined by the data compression method used by your software application. When first captured, the image is saved in the JPEG file format. The average size will be approximately 4-8 K. However, the size of each JPEG depends on the content of each image–the more complex the content, the larger the file size.

For the highest quality (and often the smallest file size), take grayscale images.

To capture images on the Dolphin 9500

Complete these basic steps:

- **1** To aim, point the display end of the Dolphin 9500 straight on the target.
- 2 Press the SCAN key to preview the image. A live video image appears on the terminal screen. Use it as a guide while you position and aim the terminal. You may find it helpful to start by moving the terminal away from and then closer to the target.
- 3 When the desired image is displayed on the terminal screen, release the SCAN key to capture the image. For best results hold the Dolphin terminal as still as possible when you release the SCAN key.

To capture images on the Dolphin 9550

Complete these basic steps:

- 1 Holding the pistol-grip handle in either hand, point the display end of the 9550 directly at the target.
- 2 Press and hold the **Scan Trigger** to preview the image. A live video image appears on the terminal screen. Use it as a guide while you position and aim the terminal. You may find it helpful to start by moving the terminal away from and then closer to the target.
- **3** When the desired image is displayed on the terminal screen, release the **Scan Trigger** to capture the image. For best results hold the Dolphin terminal as still as possible when you release the SCAN key.

Note: As noted above, you can also use the SCAN key as directed for the Dolphin 9500.

Communication Media Options

Via the Industrial Connector

The 17-pin industrial connector supports USB and serial communications. Its power output is 500mA at 5V. When connected properly, it enables the user to connect the Dolphin 9500/9550 terminal to external devices such as scanners and printers.

For more information about the 17-pin industrial connector, see Bottom Panel Features on page 3-9..

Via the IrDA Port

The IrDA port allows the Dolphin 9500/9550 to send data via pulses of light to and from other IrDA-compliant devices, such as printers and PCs or to other Dolphin 9500/9550 terminals.

Via the 802.11b Radio

The Dolphin 9500/9550 may be equipped with a WiFi®-compliant, interoperable 2.4 GHz 802.11b direct sequence spread spectrum wireless local area network (WLAN) radio.

Via Bluetooth Radio

The Dolphin 9500/9550 may be equipped with a Bluetooth personal area network (PAN) radio.

Software Communication Programs

Microsoft® ActiveSync®

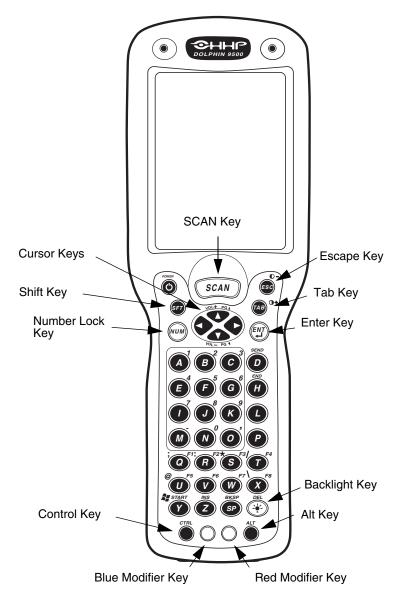
In the Dolphin 9500/9550 Microsoft® development environment, ActiveSync® is a tool for developers. It allows Pocket PC devices like the Dolphin 9500/9550 to connect to and exchange data with a desktop computer.

RAS

Short for *Remote Access Services*, a feature built into Windows NT® that enables users to log into an NT-based LAN using a modem, X.25 connection or WAN link. RAS is fully supported and allows the use of PPP or SLIP connections for network connectivity.

Using the Keyboard

The Dolphin 9500/9550 has three keyboard configurations. For details, see Three Keyboard Options on page 3-3.. Each keyboard configuration has special keys and key combinations to type characters or perform functions. Refer to the chart in A for details.



Dolphin 9500/9550 43-Key Front View

Using the Cursor Keys

Use the cursor keys to navigate around on an application screen. The use of these keys can vary depending on the application.

Press	То
	Move the cursor up one row or line.
	Move the cursor down one row or line.
¢	Move the cursor one character to the right.
•	Move the cursor one character to the left.

Using the Modifier Keys

All three versions of the Dolphin 9500/9550 keyboard feature the standard PC keyboard modifier keys, Shift (SFT), Alt, and Ctrl. To enable single-handed operation, the SFT key modifies only the next key pressed; it must be pressed and released before each key you wish to modify.

The Ctrl and Alt keys are located on the bottom row. There are two additional modifier keys located on the bottom row of the keyboard: one blue and one red.



Functions of the Alt and Ctl keys depend on the software application in use.

The blue and red keys are used in combination with other keys to type the corresponding color-coded characters and functions. See the chart in A for key combinations for keyboard functions and special characters that use these keys.

The Red and Blue keys modify only the next key pressed; these keys must be pressed and released before each key you wish to modify to the Blue or Red case.

Special Keys

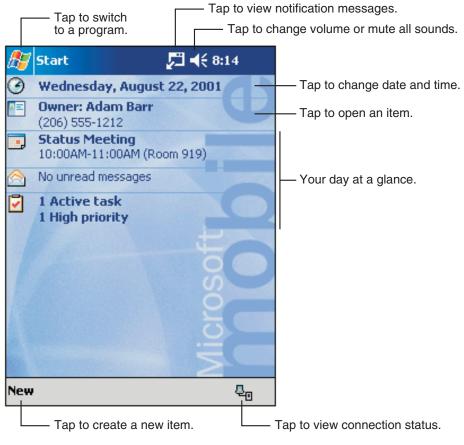
SCAN KeyThe SCAN key activates the scan on both 9500/9550 terminals. It also "wakes" the terminal from sleep mode. Its position also allows convenient one-handed image-taking and/or bar code scanning.Power KeyThe Power key puts the terminal into Suspend Mode and also wakes terminal from suspend mode.Shift (SFT)The Shift key toggles the keyboard from upper case alphabet mode to lower case alphabet mode and back. Caps Lock may also be toggled by pressing the red modifier key followed by the Shift key or by double-tapping the Shift key. When Caps Lock is toggled on, the Shift key makes characters lower case; when it is toggled off, the Shift key makes keys upper case.Enter (ENT)The Enter key confirms data entry.Escape (ESC)The Escape key performs a cancel action.TabThe Tab key moves the cursor to the next tab stop or the next control on a form.BacklightBy default, the Backlight key turns the keyboard and display backlights on and off. Note For color displays, when the backlight has turned off, pressing any key on the keyboard turns it back on.Number Lock (NUM)This key is included only on the 43-key keyboard option which defaults to alphabetic mode. The Number Lock (ALPHA)Backspace (BKSP)This key is included only on the 35-key keyboard option which defaults to numeric mode. The Alpha key toggles between the numeric and alphabetic modes.Backspace (BEL)This key appears on both the 35 and 56-keyboard options. The Backspace key moves the cursor back one space for each time the key is pressed. Backspace is a shifted function on the 43-key keyboard version.Delete (DEL)This key appears on both the 35 and 56-keyboard options. The Delete key deletes one character for each time the key is pressed		
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	Backspace (BKSP)	back one space for each time the key is pressed. Backspace is a shifted function on the 43-key keyboard version. To delete a single character, press Red key + SP. To delete multiple characters,
	Delete (DEL)	

Key Combinations

There are some keyboard functions and special characters not defined on the Dolphin 9500/9550 keyboards or overlays. Refer to the charts in A for the key combinations used to access these functions and special characters on your terminal.

Today Screen

When you turn on your device for the first time each day (or after 4 hours of inactivity), you'll see the Today screen. You can also display it by tapping **Start** and then **Today**. On the Today screen, you can see at a glance important information for the day.



Today Screen

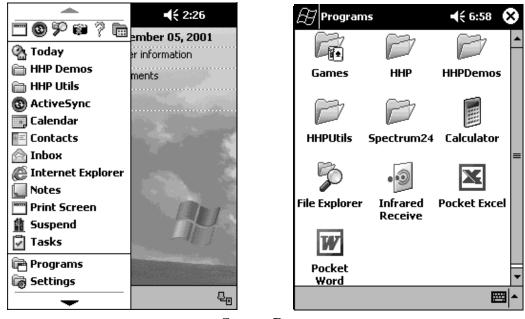
Following are some of the status icons you may see.

Status Icon	Meaning
-€€	Turns all sounds on and off
C'	Backup battery is low
θ	Main batteries are charging
Q	Main batteries are low
_!	Main batteries are very low
	Main batteries are full
-sii	Connection is active
€	Synchronization is beginning or ending
হাঁ	Synchronization is occurring
1	Notification that one or more instant messages were received
	Notification that one or more e-mail messages were received

Note: If more notification icons need to be displayed than there is room to display them, the Notification icon, Θ , will display. Tap the icon to view all notification icons.

Selecting Programs

To select a program, tap **Start>Programs**, then the program name. (You can customize which programs you see on this menu. For information, refer to Adjusting Device Settings on page 6-1.



Start > Programs

Note: Some programs have abbreviated labels for check boxes and drop-down menus. To see the full spelling of an abbreviated label, tap and hold the stylus on the label. Drag the stylus off the label so that the command is not carried out.

Navigation Bar and Command Bar

The navigation bar is located at the top of the screen. It displays the active program and current time, and allows you to switch to programs and close screens.

Use the command bar at the bottom of the screen to perform tasks in programs. The command bar includes menu names, buttons, and the Input Panel button. To create a new item in the current program, tap **New**. To see the name of a button, tap and hold the stylus on the button. Drag the stylus off the button so that the command is not carried out.

🎢 Start	√ € 12:08
- 🗟 🧭	Tap to quickly select a program you have recently used.
🔇 Today	,
() ActiveSync	
📑 Calendar	
The Contacts	rap to select a program.
合 Inbox	
🙆 Internet Explorer	
Notes	
Tasks	
🖻 Programs 🛛 —	Tap to see additional programs.
🐻 Settings —	————Tap to customize the device.
📡 Find	
👩 Help	

Tap to change volume or mute the device.

Screen Navigation

Pop-up Menus

With pop-up menus, you can quickly choose an action for an item. For example, you can use the pop-up menu in the contact list to quickly delete a contact, make a copy of a contact, or send an e-mail message to a contact. The actions in the pop-up menus vary from program to program. To access a pop-up menu, tap and hold the stylus on the item name that you want to perform the action on. When the menu appears, lift the stylus, and tap the action you want to perform. Or tap anywhere outside the menu to close the menu without performing an action.

Notifications

Your device reminds you in a variety of ways when you have something to do. For example, if you've set up an appointment in Calendar, a task with a due date in Tasks, or an alarm in Clock, you'll be notified in any of the following ways:

- A message box appears on the screen.
- A sound, which you can specify, is played.
- A light flashes on your device.

To choose reminder types and sounds for your device, tap **Start>Settings>Personal** tab>**Sounds & Notifications**. The options you choose here apply throughout the device.

Finding and Organizing Information

The Find feature on your Dolphin mobile computer helps you quickly locate information. On the **Start** menu, tap **Find**. Enter the text you want to find, select a data type, and then tap **Go** to start the search.

To quickly find information that is taking up storage space on your device, select Larger than 64 KB in Type.

You can also use the File Explorer to find files on your device and to organize these files into folders. On the **Start** menu, tap **Programs**, and then **File Explorer**.

Tap to change folders.		
/🖅 File Explorer	12:34p	
My Device → My Documents Program Files Storage Card Temp Windows	Name ₹	 Select the sort order for the list. Tap the folder name to open it.
Refresh Paste New Folder		 Tap and hold to create a new folder.
Edit	≡ ^	

File Explorer

You can move files in File Explorer by tapping and holding the item you want to move, and then tapping Cut or Copy and Paste on the pop-up menu.

Chapter 5 - Wireless Communications with Dolphin 9500/9550

Wireless Local Area Network (WLAN) Communications

Wireless communications with the Dolphin 9500/9550 mobile computer is versatile. Both devices feature co-existing WiFi™ - compliant 802.11b WLAN and Bluetooth™ WPAN radios integrated into the terminal. That, in addition to the open software architecture, make the Dolphin 9500/9550 a complete solution for a variety of wireless mobile data collection applications.

Dolphin 9500/9550 terminals have an on-board 2.4 GHz 802.11b DSSS WLAN radio. The radio uses direct sequence spread spectrum (DSSS) technology, which spreads its signal continuously over a wide frequency band, and provides an Ethernet-like data rate of up to 11 megabits per second.

Dolphin 9500/9550 is interoperable with other 802.11b WiFi®-compliant products including access points, printers, PCs via PC-card adapters and other wireless portable terminals.

Terminology Note

In this manual, the terms "click" and "tap" are used interchangeably. Both mean using the stylus or a finger on the touchscreen of the Dolphin 9500/9550 to perform a task. Those tasks usually direct you to click or tap an operation button or icon.

Choosing a Radio - the Radio Manager

Purpose

The Radio Manager is a control panel applet through which the radio power driver controls the radio state. It enables you to choose which radios in the terminal are powered up. When powered up, the radio is transmitting, when powered down, the radio is not transmitting.

Single radio configuration

If your terminal contains a single radio and its associated driver is installed, the radio operates by itself without any special configuration made to the device. You can use the Radio Manger to power it down.

Potential radios

There is a potential for three radios to be installed in the device:

- Bluetooth,
- 802.11b, and
- GSM/GPRS. [I realize that this is future functionality, but it is relevant here.]

Multiple radio configuration

If multiple radios are installed in your terminal, simultaneous operation must be configured on the device before the radio power driver allows it. Configuration of simultaneous radio operation is done during the manufacturing process according to FCC regulations.

Multiple radio operation

GSM and 802.11b are mutually exclusive. While they may both be present, they cannot be allowed to operate simultaneously because together they exceed the power supply capability of the terminal.

The Bluetooth radio is allowed to operate by itself or simultaneously with either of the GSM or 802.11b radios after FCC approval is obtained.

Accessing the Radio Manager

Go the **Start > Settings > System** tab **> Radio Manager**. The Radio Manager appears identifying which radio modes are allowed in the Radio Modes box. The highlighted entry is the radio mode that is currently enabled; its Status should be Ready.

🎊 Start	◀€ 11:59	֎
Radio Mana	ger	
Radio Modes ———		
None BlueTooth Only]
80211b Only		
Status		_
Ready		
Apply		
	8	≖ ^

The Radio Modes box

The Radio Modes box displays the radios currently installed on your terminal. For example, if a working Bluetooth module is installed, the box contains the line BlueTooth Only whether or not that radio is currently powered up. (There may be other bluetooth related list box entries, but the BlueTooth Only entry is guaranteed to be there if the module is present.)

Powering up a radio

Simply select an entry in the Radio Modes box and click **Apply**. The Radio Manager issues the radio power driver commands of enabling and disabling the radios in the proper sequence.

For example, let's say the current mode is BlueTooth Only and the attempt is made to switch to 802.11b Only. After **Apply** is clicked, the Radio Manager turns off the Bluetooth radio first, then turns on the 802.11b radio.

If an error occurs at either step, the radio mode change is abandoned, and the resulting radio state returns to what is was at the time the error occurred.

Requirements

To successfully power up a radio, its associated driver CAB must have been installed along with the module. If the module is present, the radio appears in the Radio Modes box; however if the associated CAB for that module is not installed, you cannot successfully enable the radio.

For instance, if the Bluetooth module is present but its CAB has not been installed, BlueTooth Only selection still appears in the Radio Mode box. However, attempting to power it up will result in an error in the Status field.

The Status field

The Status field displays error messages when a radio cannot be enabled. When is reads "Ready" the radio selected in the Radio Modes box is powered up.

Errors codes

The following error codes are currently defined and may appear in the Status field after the **Apply** is clicked:

Error codes	Meaning
RP1	Attempt to select an invalid radio mode
RP2	Attempt to change the state of more than one radio at a time
RP3	Bluetooth enable or disable timed out
RP4	Bluetooth enable or disable failed
RP5	802.11b enable or disable timed out
RP6	802.11b enable or disable failed
RP7	GSM/GPRS enable or disable timed out
RP8	GSM/GPRS enable or disable failed
RP9	Bluetooth CAB not installed
RP10	802.11b CAB not installed
RP11	GSM/GPRS CAB not installed

RP1 and RP2 Should never appear because the Radio Manager control panel applet insulates the user from these problems.

RP3, RP5, and RP7 Indicate the specified radio driver did not acknowledge the request to enable or disable the radio. The radio state is therefore unknown. This error probably requires a soft reset for recovery (see Resetting the Dolphin (Soft Reset) on page 2-12).

RP4, RP6, and RP8 Indicate the specified radio driver rejected the request to enable or disable the radio. The radio is therefore still in whatever state it was before the attempt to change it.

RP9, RP10, and RP11 Indicate the specified radio's CAB has not yet been installed. In this case the radio power driver does not try to enable the radio. The corrective action is to install the CAB for that radio. A soft reset may be required after the CAB is installed (see Resetting the Dolphin (Soft Reset) on page 2-12).

Configuring WLAN Communications

To open the configuration utility for the 802.11b radio, click **Start > Settings > System** tab> **HHP WLAN Settings** The Settings window opens to the Status tab, which displays the current WLAN settings for 802.11b.



Status tab

🎊 Settings	4 € 11:43 @
HHP 802.11b WLAN	
Current Channel: 1	Disable Radio
Current Tx Rate: 2 Mb/s	Rescan
Link Quality (0%):	
Strength (0%):	
_[Station IP Info	
IP Address: 0.0.0.0	
Renew IP More Info >	> Ping
State: Associating - any	
Status Config Advanced A	bout
	■

Note: You can also click on the Status icon at any time.

Fields

Current Channel	Shows the RF channel currently used by the card.
Current TX Rate	Shows the current transmit rate. This can be 1Mb/s, 2Mb/s, 5.5Mb/s, or 11 Mb/s.
Link Quality	Gives signal to noise ratio in both percentage and graphical display.
Strength	Gives signal strength of the receiver in both percentage and graphical display.
Station IP Info	IP Address - IP address of the radio. Check with your network administrator for IP configuration
BSS ID/IBSS ID	information. Shows the Network Name and the MAC address of the access point the card is associated with in the AP mode. Or it shows the Network Name and the MAC address of the creator of IBSS which the card is joined into in the Peer-to-Peer (Ad-Hoc) mode.
Operation buttons	
Disable/Enable Radio	Click this button in toggle to disable/enable the radio link from the card.
Rescan	Click this button to start a rescan process to search for an AP with stronger signal in the network.
Renew IP	Click this button to reapply IP address from DHCP server when automatic DHCP is enabled.

More Info

Click this button to display detailed TCP/IP info; as shown in the following screen:

🎊 Settings	📢 11:54 🛛 🚳
HHP 802.11b WLA	N
IP Address:	169.254.155.82
Subnet Mask:	255.255.0.0
Gateway Address:	
DHCP Server:	255.255.255.255
Primary Wins Server:	
Lease Obtained:	08/11/2003 11:07:16
Lease Expires:	08/11/2003 11:07:16
MAC Address:	00:0B:6C:00:01:36
Device Name:	[1] Sychip Pegasus WLAN Emb. Module
	ок
	■

Click **OK** to close this window.

Click this button to open the Ping utility for WLAN.

🎊 Settings	€⊙ 💁
Ping Utility for WLAN	
IP Address : 10.1.1.97	•
Size(Bytes) : 32 💌	Clear Ping
Timeout(ms) : 500	
Pinging: 10.1.1.97 Reply from 10.1.1.97: bytes: Reply from 10.1.1.97: bytes: Reply from 10.1.1.97: bytes: Reply from 10.1.1.97: bytes: Reply from 10.1.1.97: bytes:	=32 time<10ms 1 =32 time<10ms 1 =32 time<10ms 1
【◀】 Ⅲ	•
	► E

Ping Utility for WLAN window field descriptions

IP Address	Displays the current IP address. You can enter another IP address to ping.
Size (Bytes)	Displays the current bytes size; 32 is the default. You can select up to 8192 from the drop-down list.
Timeout (ms)	DIsplays the current timeout; 500 is the default. Increase or decrease it by tapping the spin buttons.
Clear	Click this button to clear IP Address input and the ping statistics field.

Ping

Status tab

Ping

Click this button to ping the IP address entered in the input field. Shows the pinging IP address and the pinging results.

Config Tab

Ping Statistics field:

The Config tab provides a list of all access points and peer stations associated with the host. Its configuration tool enables you to create and edit SSID profiles for access points that you want your station to associate with.

Preferred Profil sychip				o ly
Active SSIDs:	<u>۲</u>	<u>a</u> dd	Refr	
SSID	Signal	Mode	Channel	
公開 sychip ない ない ない ない ない ない ない ない ない ない	100% 100% 46% 66% 80% 60%	IL CLEAR CLEAR	(11) (3) (1) (1) (7) (9) (10)	=
▲ III Status Config	10000	ed Abo		

Fields

Preferred Profiles	A list of preferred profiles for access points (AP) in the network created by the user, or added from the Active SSIDs table is located at the top of the Config window. When the radio is turned on, it searches for the APs with which to associate in the order of the listed profiles. For each profile in the table, one can make changes by using the icon tools at top of the table: New, Edit, Delete, Up , and Down (Operation buttons on page 5-5). This table is blank after the initial Pegasus software installation. It can be kept blank with no automatic association preference.
Active SSIDs	The Active SSIDs table lists all access points or peer stations (creator of IBSS) in the vicinity of the host. It displays only those SSIDs that accept broadcast associations.
	Each record displays information for the following six fields (The table may not display all the fields on the screen. Use horizontal scroll bar to check all):
	SSID - Network Name of the access point or peer station. A link icon with signal strength 2 is also shown.
	Signal Strength in percentage for that SSID.
	Mode - An icon shows whether it is an access point $ otal $, or a peer station $ otal $.
	Channel - The channel it uses and the WEP method it applies if any. The icon 🔒 stands for WEP
	Key-On, and 卣 for WEP Key-Off.
	SupRate - Supported data rate of the access point or the peer station.
	BSSID (MAC Addr) - BSSID or MAC Address of the access point or the peer station.

Apply	Click the Apply button to associate your station with the SSID you selected.
	This SSID can be either from the Preferred Profile table or from the Active SSIDs list. When applied, the Status tab window displays the status of the wireless connection. If the association failed, a search for another AP in the Preferred Profile list automatically takes place and the radio attempts to associate with the station, in order of preference.
Refresh	Click the Refresh button to start a new search for all available access points or peer stations in the vicinity.

To add an Active SSID profile to the Preferred Profile table, complete these steps:

1 Select and highlight an SSID from the Active SSID list.

2 Click Add. If the SSID has WEP Key-On, the Settings window displays and prompts you to enter the WEP Method, Encryption Key, and Key ID.

3 Click OK in the Settings window after finishing the configuration. The SSID and its profile are added into the Preferred

Profiles window. If adding an SSID with WEP Key Off, the Settings window does not display and the SSID is added directly to the Preferred Profile table when you click the Add button.

Operation buttons

Creating and modifying profiles

Use the following five icons at the top of the window:

lcon	Name	Click this icon to
	New	create a profile.
r	Edit	modify a profile.
×	Delete	delete a selected profile.
+	Up	move the highlighted profile up to increase the automatic association priority.
+	Down	move the highlighted profile down to decrease the automatic association priority.

To create and add a new profile to the Preferred Profiles list, complete these steps:

1 Click the **New** button and the following screen displays:

IX <u>R</u> ate: Fully Auto ▼ Cha <u>n</u> : 11 ♠
Fully Auto 👻
lse Passp <u>h</u> rase
y ID: 🚽
<u>C</u> ancel

2 Enter the values for the new profile in the information fields and click OK.

Network Name & Type SSID: TX Rate: Fully Auto ✓ Type: Access Point ✓ WEP ✓ Use Manual Key ✓ Wethod: Disabled Key ID: ✓	SSID: TX Rate: Fully Auto Fully Auto Iype: Access Point Chan: 11 WEP Use Manual Key Use Passphrase Method: Disabled Key ID: ▼ Encryption Key: Image: State Image: State Image: State	SSID: TX Rate:
Fully Auto Type: Access Point MEP Use Manual Key Use Passphrase Method: Disabled	Fully Auto Iype: Access Point MEP Use Manual Key Use Passphrase Method: Disabled Encryption Key: Encryption Key:	Fully Auto Iype: Access Point Chan: 11 WEP Use Manual Key Use Passphrase Method: Disabled Encryption Key: (0 characters)
Iype: Access Point Chan: 11 + WEP	Iype: Access Point Chan: 11 WEP Image: Second	Iype: Access Point ✓ Chan: 11 11 WEP Item to be the set of the s
WEP Use Manual Key Use Passphrase Method: Disabled Very ID:	WEP Use Manual Key Use Passphrase Method: Disabled Key ID: Fncryption Key:	WEP Use Manual Key Use Passphrase Method: Disabled V Key ID: V Encryption Key: (0 characters)
WEP Use Manual Key Use Passphrase Method: Disabled Very ID:	WEP Use Manual Key Use Passphrase Method: Disabled Encryption Key:	WEP Use Manual Key Use Passphrase Method: Disabled V Key ID: V Encryption Key: (0 characters)
		(0 characters)

To modify a profile, select one and click the **Edit** button. The following screen displays:

Note: The SSID, Type, TX Rate, and Channel fields are unchangeable in AP mode, whereas TX Rate and Channel fields can be changed in Peer-to-Peer mode.

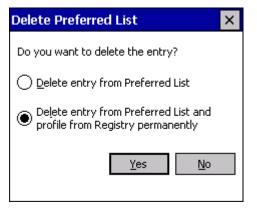
Network Name & Type

SSID	To enter an SSID, which is the Network Name. Check with your network administrator for Network Name (SSID).
Туре	Choose from Peer-to-Peer or Access Point in the pull down menu.
	Access Point mode is also called "Infrastructure" mode. Peer-to-Peer mode is used for communication between two (or more) radio stations (cards) without an access point.
TX Rate	Choose 1Mb, 2 Mb, Auto 1/2 Mb, 5.5 Mb, 11 Mb, or Fully Auto from the menu. The transmit rate is Fully Automatic by default.
Chan	Channel. Scroll to select a channel for communication.
WEP	Used to configure the WEP Key for secure wireless communication. Within this block, you configure the WEP Method, Encryption Key, and Key ID.
Use Manual Key	Manually input the encryption code for the WEP Key. This is the default setting.
Use Passphrase	Generates an encryption code based on the phrase entered in the window. Not available in this release.
Method	Select one of the five options from the list:
	Disabled WEP Key Off
	64 bit (HEX) up to 10 characters configurable in Hexadecimal for Encryption Key
	64 bit (ASCII) up to 5 characters configurable in ASCII for Encryption Key
	128 bit (HEX) up to 26 characters configurable in Hexadecimal for Encryption Key
	128 bit (ASCII) up to 13 characters configurable in ASCII for Encryption Key
Note: HEX, Hexadecimal number set of 16 digits from 0-9 and from A(a)-F(f). ASCII: Any printable ASCII characters.	
Encryption Key	Different character set depending on different WEP method and key format.
Key ID	Choose from the available options:
	Key 1(Default)
	• Key 2
	, –

	• Key 3
	• Key 4
	Check with your network administrator for security WEP Key and Key ID you need to use.
Cancel	Click this button to close the window without saving or modifying the profile.
ОК	Click this button to make the change.

Deleting a Profile

Profiles may be deleted either from the Preferred List or from the Preferred List and Registry. To delete a profile, select (highlight) a profile and click the **Delete** button and the following screen displays:



From the pop-up window select the option of your choice and click Yes to confirm or No to cancel.

Advanced Settings tab

On the Settings window, click the Advanced tab. The following screen displays:

🎊 Se	ttings			:48	9
HHP 80)2.11b V	VLAN			
Powe	r Save M	ode:			
Alway	s Enable				•
Prean	nble Mod	в:			
Auto	Tx Pream	ible			•
Authe	entication	Algorithm:			
Auton	natic basi	ed on WEP s	etting		Ŧ
	Defau	ılts	Apply		
				-Ir	`
Status	Config	Advanced	About		
				E	∎ ►

Information Fields

Power Save Mode

- Disable Choosing this option will disable the power save mode.
- Always Enable Choosing this option will have the power save mode always enabled. This is the default setting.
- Auto Enable When internal battery is being used it will be in Power Save mode; when external power supply is being used the Power Save mode will be disabled automatically.

Authentication Algorithm

Note: Only configurable when the WEP Key is enabled for the SSID profile.

- WECA Compliant (always use Open) Not available in this release.
- Must use Shared with WEP AP must use WEP method.
- Automatic based on WEP setting Default setting.
- Preamble Mode
- Long TX Preamble Where Sync field consists of 128 bits.
- Short TX Preamble Where Sync field consists of 56 bits.
- Auto TX Preamble Automatically change between long and short preamble mode transmission based on the AP configurations. This is the default Preamble Mode.
 A Preamble consists of a Synchronization (Sync) field and a 16-bit Start Frame Delimiter (SFD) field.

Operation Buttons

Defaults	Resets all the settings to default values (Always Enable for Power Save Mode, Automatic based on WEP setting for Authentication Algorithm, and Auto TX Preamble for Preamble Mode).
Undo	Cancels the change for setting.
Apply	Applies the change to new card setting.

About Tab

This window provides Version Number and time of build for Network Driver, Configuration Utility, and NIC Firmware. Check the SyChip website for the latest version.

On the Settings window, click the About tab. The following screen displays:

🏂 Sel	ttings		_ - €:	11:51	0 8
HHP 80	2.11b V	VLAN			
<mark>((p))</mark>	Copyrig	ht © 2003 (5yChip,	Inc.	
_L Networ	k Driver				
Versio	n: 3.C	0.04.2.0025	5		
Date:	Jur	n 30 2003 20	:26:15		
-Config	uration U	Hility —			
-			5		
Date:	Jur	n 30 2003 20	:30:10		
-NIC Firr	mware –				
	n: 1.0	7.06.00			
		2	×	H	ò
Status	Config	Advanced	About		
				B	≝ ^

Status Icon

You can access the configuration utility by tapping and holding on the Status icon at any time. When you right click on the Status icon, the following side menu displays:



The four menu entries at the bottom correspond to the four configuration settings tabs: the Status, Config, Advanced, and About respectively. This side menu provides a shortcut to the configuration settings.

Wireless Radio On	Turns on the radio. LED is on and the Link Icon displays with signal strength.
Wireless Radio Off	Turns off the radio. A pop-up window will ask for your confirmation. If confirmed, the LED will be off and the Link Icon will change color from green to red on the top without signal strength displayed. The WLAN card/module will stop functioning.
Remove Status Icon	Removes the Status Icon from the Windows Status Tray. A pop-up window will ask for your confirmation. If confirmed, the Status (Link) Icon will be removed from the Windows Status Tray.
Winalaga Naturaule Ctatura	One no the Status table of the configuration utility

Wireless Network Status Opens the Status tab of the configuration utility

If the Status Icon changes to a crossed lock X, it warns you that you may have entered a wrong key (WEP Key mismatch) for the WEP-On AP or a station.

Remove Wireless Status Icon Window

If you choose to remove the Remove Status Icon, the screen shown below displays:



Press Yes to confirm, or No to cancel.

If confirmed, the Status Icon will not display in the Windows Status Tray. By checking "Remove Status Icon Permanently" at the bottom of the window you will not see the Status Icon even after your system has been restarted. Otherwise it will re-appear next time you turn on the system.

Double clicking on the Pegasus Configuration Icon from the Control Panel will always bring the Status (Link) Icon back to the Windows Status Tray for either temporary removal or permanent removal of the icon.

Wireless Personal Area Network Communications with Bluetooth

Setting up Your Bluetooth Card

- *Note:* Note: If you use the Get Connected! Wizard, which is recommended for normal usage, then this step is not necessary. This step would be used to change the friendly name of your mobile computer.
- 1 After you insert the Bluetooth Card, the Bluetooth icon icon should appear in the task tray (visible from the Today screen for Pocket PCs). Tap on the icon.

Note: If you installed OBEX, the menu will also list Transfer via Bluetooth.

2 In the pop-up menu, select Advanced Features, then My Bluetooth Device.



3 In the **My Bluetooth Device** screen, you can modify the **Friendly Name** and make any desired configuration changes. When done, tap **OK**.

My Bluetov Friendly Name	oth Device
Michaile Pockat PC	
Bluetooth Address U Decoverable U Connectable U	
	Provare: 2.1X

- In normal phone connect operation, Discoverable mode is not needed and should be disabled.
- If you do enable **Discoverable** mode (e.g., for ActiveSync), note that it does not shut off by itself. To save power, remember to disable it when not needed.
- Connectable, Use Authentication, and Use Encryption are also not required for printing or dial-up networking applications.
- Check Use Authentication to enable the Use Encryption option.

Assign COM Ports

Follow these steps to view and/or modify the Bluetooth COM ports.

1 Tap on the Bluetooth icon on the Today screen. Select Advanced Features then My Bluetooth Device.



Note: If you installed OBEX, the menu will also list Transfer via Bluetooth.

2 The My Bluetooth Device screen will appear. Tap on the COM Ports tab.

My Bluetooth	h Device
Michelle Pockat PC	
Bluetooth Addressi 00.	
	nware: 2.170

3 As needed, view and/or enable/disable the Bluetooth COM port assignments. Tap OK.

Device Manager	2:52p 🛞
COM Ports You can enable, disable, and assignments of the Bluebooth below.	
Distort Press	COPIE
Bustooth Inster	COPH :
Buetooth LAP	COMEL
Sustooth Desktop	COP16 :
Bustooth F4X	COMD:
Bluetooth COPIPort	009991
General COMPorts	

Note: The Bluetooth Phone port cannot be disabled.

Discover Bluetooth Device(s)

Follow these steps to discover other Bluetooth devices nearby, including non-phone devices. The Device Discovery Wizard is a more detailed alternative to using the Bluetooth "Get Connected!" Wizard or Bluetooth ActiveSync or Bluetooth LAN Access options. The Device Discovery Wizard allows you to discover any type of Bluetooth device.

- 1 If not open, launch the **Bluetooth Devices** folder. Tap on the Bluetooth icon on the **Today** screen. Select **Advanced Features** then **Bluetooth Devices**.
- 2 In the Bluetooth Devices Folder, tap on the Device Discovery icon. Or you can tap on Tools. In the pop-up menu, select Device Discovery.

3 Follow the Bluetooth Device Discovery Wizard to search for Bluetooth devices nearby. When prompted, select the device type you seek.



4 When the search is complete, a screen will report the discovered Bluetooth devices. Check the box next to any device you wish to save information about, (i.e., any devices you wish to connect to). Tap **Next>**.

Bluetooth Devices	5:35p
Denice Manue	Device Class Phone
Choose each device to ran checkboo to the left of eac	e by tapping the h device.
< Back	Next >

- 5 A service discovery phase will begin, 5-10 seconds per chosen device.
- 6 In the next screen, tap Finish.

Bond with Discovered Device(s)

Follow these steps to bond with an already discovered Bluetooth device. In most cases, bonding is for establishing secure communications with a Bluetooth-enabled phone. This is a more detailed alternative to using the Bluetooth "Get Connected! Wizard."

Important!

- Do not try to bond with a Motorola Timeport 270C or Nokia 6310!
- Do not use this method to bond with a printer! The third-party printing software included on the installation CD also handles bonding.

- 1 If not open, launch the **Bluetooth Devices** folder. Tap on the Bluetooth icon in the Today screen. Select **Advanced Features**, then **Bluetooth Devices**.
- 2 Tap and hold your stylus on the Bluetooth device you want to bond with. In the pop-up menu, select **Bond**.



3 Alternatively, after selecting a device, tap on the Bond icon. Or tap on Device, then select Bond.



4 The Bluetooth Device Bonding Wizard will launch. Follow the wizard to bond with your selected device.



5 As prompted, make sure the Bluetooth device that you want to bond with is in *Bondable* mode.



6 If the remote device is set up to accept bonding, a **Bluetooth Passkey** screen will appear. To continue bonding, enter the correct passkey and tap **Reply**.

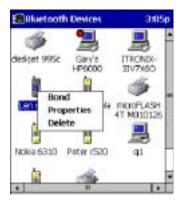


7 When you have successfully bonded with the other device, tap **Finish**.

View Device Properties

Follow these steps to view the properties of an already discovered device.

- 1 If not open, launch the **Bluetooth Devices** folder. Tap on the Bluetooth icon on the Today screen. Select **Advanced Features** then **Bluetooth Devices**.
- 2 Select a device. Tap on the **Properties** icon, or tap on **Device** then select **Properties**. Alternatively, you can tap and hold your stylus on the Bluetooth device you want to view information about. In the pop-up menu, select **Properties**.



3 Use the **General** and **Services** screens to research device properties. If needed, assign a new device type icon by tapping on the arrow buttons in the **General** screen. You can also use the **Device name** field to rename the device. When done, tap ok for the setting to take effect.



Set up Your Favorite Device

Follow these steps to set up default devices in the **Bluetooth Devices** folder. *Note:* The Get Connected! Wizard automatically assigns the favorite phone.

Complete these steps:

- 1 Tap on Tools and select My Favorites.
- 2 Tap on the tab for the type of device you would like to set a favorite for. If needed, use the arrow buttons to scroll and find the tab you need.



- *Note:* Tabs will appear only for COM ports you have enabled. To enable a port, refer to the "Assign COM Ports" section earlier in this chapter.
- 3 To select a favorite device, select Use the favorite selected above. In the drop-down menu, select your device. Tap OK.
- 4 After setting a device as your favorite, its icon will appear in the Bluetooth Devices folder with a heart next to it.

Change Views

You can switch between the Large Icons or Details views for the Bluetooth Devices folder.

- **1** In Bluetooth Devices, tap on View.
- 2 In the pop-up menu, choose between Large Icons or Details.

	etooti	h Devices	5:42p
		1	
Lerr	520	Peter's	
		Encsion	
	1.1	ne trans	
**		ge Icons	

Large Icons view



Details view

Note: In Details view, scroll right to see the current Bonded status.

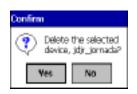
Delete a Device from the Folder

If you no longer plan to connect with it, you can delete a device from the Bluetooth Devices folder.

- 1 If not open, launch the Bluetooth Devices folder.
- 2 Tap and hold your stylus on the device you wish to delete. In the pop-up menu, select Delete.



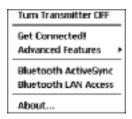
- 3 Alternatively, after selecting a device, tap on the **Delete** icon. Or tap on **Device** then select **Delete**.
- 4 A Confirm screen will appear. Tap Yes.



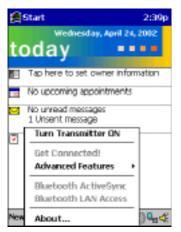
Turn Radio Transmitter ON/OFF

You may want to turn off the radio transmitter to save power or if you are entering an area with radio restrictions (e.g., an airplane).

- 1 The Bluetooth icon 🙋 should appear in the task tray on the **Today** screen. Tap on the icon.
- 2 In the pop-up menu, select Turn Transmitter OFF.



3 The Bluetooth Card radio transmitter will shut off. The Bluetooth icon in the task tray will become gray, as will relevant menu options (e.g., Get Connected!).



4 To turn the radio transmitter back on, tap on the gray Bluetooth icon. In the pop-up-menu, select Turn Transmitter ON.

Bluetooth ActiveSync

This section explains how to use the Bluetooth ActiveSync feature. It helps you quickly and easily ActiveSync to a notebook or desktop computer with ActiveSync v3.x installed.

1 Tap on the Bluetooth icon 🙆. In the pop-up menu, select Bluetooth ActiveSync.

Turn Transmitter OFF	
Get Connected! Advanced Features	,
Bluetooth ActiveSync Bluetooth LAN Access	-
About	-

2 The next screens will vary depending on if your Bluetooth Devices folder contains any computers, and if one is chosen as your favorite. Please refer to the appropriate scenario:

SCENARIO #1: Your Bluetooth Devices folder contains a favorite desktop computer.

- (a) When you tap Bluetooth ActiveSync, your mobile computer will automatically try to connect to your favorite computer.
- (b) The Connect To screen will appear, reporting that it is trying to connect to Wireless ActiveSync.

Connect To	
Wireless ActiveS	ync
Status: Connectine	g to Host
Cancel	Hide Status

(c) After a successful connection is made, the status screen will report Connected. Now you are ready to synchronize files, if desired.

SCENARIO #2: Your Bluetooth Devices folder contains no favorite desktop computer.

(a) When you tap on Bluetooth ActiveSync, a screen will appear that allows you to choose which computer to connect to in your Bluetooth Devices folder. Choose a computer from the list and tap Select, or tap Find to search for another computer.

🛃 Bluetooth Devices	6:09p
Device Name	
Sary's HP6000	
<u>,</u> qI	
4 .	
Choose the desired PC and tap Select	
If the desired PC is not shown, tap P search for one that may be in range. Tap Cancel to abandon this operation	
Select Pind Car	ncel

- *Note:* If the computer you want to connect to is not listed, tap Find to begin a search. Proceed as described in Scenario #3 on the next page.
- (b) Your mobile computer will attempt to connect to your selected computer.



(c) After a successful connection is made, the status screen will report Connected. Now you are ready to synchronize files, if desired.

Connected to 'Wireless ActiveSync
Wireless ActiveSync
Status: Connected
Disconnect Hide Status

SCENARIO #3: Your Bluetooth Devices folder contains no computers.

(a) When you tap on Bluetooth ActiveSync, a Bluetooth Device Search will automatically begin.



Note: You can also start the device search by tapping Find in the Bluetooth Devices screen. See Scenario #2 on page 5-23.

(b) After the search is complete, select the computer you wish to ActiveSync with and tap Select. If the computer is not listed, make sure the computer id discoverable and tap Refresh to search again.

New Bluetooth Devices	5:14p
Device Name	
Miccompage MinistowsCE	
1000 M	
Choose the desired PC and tap Sele	
To perform the search again, tap Re Tap Cancel to abandon this operation	dresh.
Seve selection for future use.	
Select Refresh Ci	reif

- (c) After you tap Select, a service discovery phase will begin.
- (d) The Connect To screen will appear, reporting that it is trying to connect to Wireless ActiveSync.



(e) After a successful connection is made, the status screen will report Connected. Now you are ready to synchronize, if desired.

Bluetooth LAN Access

This section explains how to use the Bluetooth LAN Access feature to quickly and easily connect to a Bluetooth-enabled LAN access point.

1 Tap on the Bluetooth icon. In the pop-up menu, select Bluetooth LAN Access.

Turn Transmitter CIFF	
Get Connected! Advanced Features	,
Bluetooth ActiveSync	-
Bluetooth LAN Access	_
About	

2 The next screens will vary depending on if your Bluetooth Devices folder contains any access points, and if one is chosen as your favorite. Please refer to the appropriate scenario:

SCENARIO #1: Your Bluetooth Devices folder contains no favorite access point.

(a) When you tap Bluetooth LAN Access, a screen will appear that allows you to choose which access point to connect to in your Bluetooth Devices folder. Choose an access point from the list and tap Select.

🚝 Bluetooth Devices	10:28a
Device Name	
Oncose the desired lan access device tap Select.	ice and
If the desired lan access device is shown, bap Pind to search for one be in range. Tap Cancel to abandon this operat	that may
Select Find	Cancel

Note: If your access point is not listed, tap Find and proceed as described in Scenario #3.

(b) Your mobile computer will try to connect to the selected access point.

Connect To	
BluetoothLANAcces	55
Status: Opening Po	rt
Cancel	Hide Status

- (c) If your LAN requires a passkey, a screen will appear, asking for the passkey. Enter the passkey, then tap ok.
- (d) After a successful connection is made, the status screen will report Connected.

Connected to BluetoothLANAccess	
BluetoothLANAcce	55
Status: Connected	
Disconnect	Hide Status

(e) Now you are ready to access your LAN for Internet access, files, etc.

SCENARIO #2: Your Bluetooth Devices folder contains a favorite access point.

(a) When you tap Bluetooth LAN Access, your mobile computer will automatically try to connect with your favorite access point.

Connect To
BluetoothLANAccess
Status: Opening Part
Cancel Hide Status

(b) If your LAN requires a passkey, a screen will appear, asking for the passkey. Enter the passkey, then tap ok.

(c) After a successful connection is made, the status screen will report Connected.

Connecter	Connected to BluetoothLANAccess	
Bluetooth	LANAcce	5 8
Statusi Co	mected	
Discor	ment	Hide Status

(d) Now you are ready to access your LAN for Internet access, files, etc.

SCENARIO #3: Your Bluetooth Devices folder has no access points.

(a) When you tap Bluetooth LAN Access, the mobile computer will automatically begin to search for new Bluetooth devices.

Device Search
oking for Bluetooth device(s)
se resaining:

Note: You can also start the device search by tapping Find in the Bluetooth Devices screen. See Scenario #2 on page 5-23.

(b) After the search is complete, select the access point you wish to connect to. Tap Select. If the access point is not listed, tap Refresh to search again.

Choose the desired lan access device an tag Salect.	
PRN_x10deexe ggPHC0 Choose the desired lan access device an	
Choose the desired lan access device an	
Choose the desired ian access device an	•
Choose the desired lan access device an	
To perform the search again, tap Refred Tap Cancel to abandon the operation.	
Save selection for future use.	

(c) After you tap Select, a service discovery phase will begin.



- (d) If the LAN requires a Passkey, a screen will appear, asking for the Passkey. Enter the passkey, then tap ok.
- (e) After a successful connection is made, the screen will report Connected.



(f) Now you are ready to access your LAN for Internet access, files, etc.

Bluetooth Printing

This chapter explains how to print from a Bluetooth-enabled printer using the PrintPocketCE software included on the installation CD to print from your device.

You can print using the PrintPocketCE program included on the Bluetooth Card Installation CD. The Bluetooth Connection Kit includes a 30-day trial version of PrintPocketCE. For a full version, please visit: www.fieldsoftware.com

If you have not done so already, be sure to install the PrintPocketCE program. To find the install for this program on the installation CD, go to the Third Party folder, then the Field Software folder.

- 1 Start the printing program. Go to Start>Programs>PrintPocketCE.
- 2 In the welcome screen, tap OK.

PrintPockatCE v3.21
Getting Started - at the main screen: Wave lat of Pockat Word docs and tast files Wave lat of Pockat Escal files.
> Tap a document or email to print it
PieldSoftware Products (c) 2001, 2002 www.fieldSoftware.com

3 In the main screen, tap on the file you wish to print.

PrintPocketCE		2:00p
🛅 All Folders 🗸		Name +
Doct.psw 🕙	11/6/01	420b
ELetter_6Nov2001	11/6/01	420b
Des Dellers State	3	and a
Doc Options 🐔 🐔 ն	9	- E

To locate your file:

- Tap on the Word icon at the bottom of the screen to view a list of Pocket Word docs, TXT, or RTF files.
- Tap on the Excel icon to view a list of Pocket Excel files
- Tap on the yellow envelope icon to view e-mail messages.
- Tap on the Doc/Excel/Email Options menu and select another type of printing (e.g., Go to email printing).
- Use the folders drop-down menu to switch between folders.
- 4 The next screens let you adjust the printer settings. Make sure the correct printer is chosen. For Port, choose Bluetooth: CF Card. Make any other necessary printer settings.

PrintPocketCE 1:37p
Nergins Left: [1" Top: [1" Right: [1" Botton: [1" Form Feed Settings
Normal Form Feed Date "Paper Height" Scrolk 3*
Conpressed Printing Draft Mode 39. Buffer Adjustment Dether Images Print Densky: Normal
Serial Port: Speed: 57600 + Serial Handshake: Software +
OIK Cancel

Note: For a Pocket Excel file, the first screen lets you adjust printing properties. Tap Continue to select the correct printer and port. Instead of Bluetooth: CF Card, you can choose the COM port assigned to your Bluetooth printer.

If needed, tap on More Settings to adjust margins, form feed, and other settings. Tap OK to return to the main printing screen.

PrintPocketCE 1:37p
Mergins Lefti L" Top: L"
Right: L" Botton: L"
Normel Form Feed Like "Paper Height" Revent
Scrok 1* Compressed Printing Draft Mode R.Buffer Adjustment Dther Images
Print Density: Nomial -
Serial Port Speed: 57600 + Serial Handshale: Software +
OR Cancel

When done adjusting the settings, tap Start Printing.

Bluetooth Devices	1:35p
Device Name	
•	F
Choose the desired serial printer and Select.	baga
If the desired serial printer is not shor tap Find to search for one that may b range.	ein
Tap Cancel to abandon this operation	
Select Pind Can	cel

5 The mobile computer will search for a Bluetooth printer. After the search, the Bluetooth Devices folder will appear. Select the Bluetooth printer, then tap Select.

If the mobile computer fails to detect the Bluetooth printer, make sure the printer is on, discoverable, and in range. Tap Find to repeat the search.

- 6 The document will begin printing.
- 7 To exit the program, tap Doc Options. In the pop-up menu, tap Exit.

OBEX

This section explains how to use the OBEX (object exchange) application to trade business cards, contacts or files with another Bluetooth device that supports OBEX.

Bluetooth OBEX application supports five operations:

- Exchange Business Cards
- Send a Contact
- Send a File
- Browse Remote Device
- Receive Contact or File
- Enable File Sharing

The first four operations - exchange business cards, send a contact, send a file, and browse remote device - are client-oriented. They involve initiating an object exchange.

The last two operations - receive contact or file and enable file sharing - are server-oriented. They involve accepting objects in an exchange initiated by another Bluetooth device.

Important!

If you have not done so already, be sure to run the OBEX Installer from the Bluetooth Card Installation CD. Otherwise, you will not be able to perform any OBEX operations with the Bluetooth Card.

After you install OBEX, the Transfer via Bluetooth option will appear in the Bluetooth menu for you to select OBEX operations.

Exchange Business Cards

1 Make sure both Bluetooth devices have a business card assigned to them.

Note: If each device does not have a business card assigned to it, you will not be able to exchange business cards.

To assign a business card to your mobile computer, do the following:

- Tap on the Bluetooth icon. In the pop-up menu, tap Advanced Features | My Bluetooth Device.
- Tap on the Object Sharing tab. Under My business card, tap Assign...

🐮 Device Manager	46 11:47 🚳
Boliect Shar	ing
Assign the business card y to others for exchanges.	our want to send
Hy business card:	Aregula
files:	
Assign the folder to use w others to access your Ner	
Hy shared folder Dilustooth Shared Polder	Assign
General COM Parts Obje	ct Sharing

• In the next screen, select your business card and tap ok. If your business card is not listed, tap on the Contacts button to create one.

Socket DBEX	46 11:21 🚳
My insiness Card	
🚯 Martinez, Enrique	
ERac, Georgene	
@ Yarbrock, James	
To add a new business car the lot, tap on Contacts.	rdto Contacta

When you return to the Object Sharing screen, tap ok.

2 Make sure the other Bluetooth device is set up to receive a contact. The device must support the OBEX Object Push profile.

- *Note:* If the other device is also using the Bluetooth Connection Kit, you can set it up to receive a contact by tapping the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth | Receive Contact or File.
- 3 Now you are ready to exchange business cards. Tap on the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth | Exchange Business Cards.



- 4 If your mobile computer has no devices in the Bluetooth Devices Folder, then it will begin to search for Bluetooth devices nearby.
- 5 Select the Bluetooth device you wish to exchange business cards with. If the device is not listed, tap Find.

🖉 Sec	ket OD	1X	46 \$17	
Deve	e Nolie			
	diet_PC	yodie		
4		1		eł.
Choose	the des	and device	and tap Select.	
to sea Tap Ca	ch for or nod to a	he that may bandon the	shown, tap Tin be in range s operation.	d

6 Your mobile computer will begin to exchange business cards. After the exchange, the new business card should appear in your Contacts list.



Send a Contact

- 1 Make sure the other Bluetooth device is set up to receive a contact. It must support the OBEX Object Push server profile. Refer to the documentation that came with the device for instructions.
- *Note:* If the other device is also using the Bluetooth Connection Kit, you can set it up to receive a contact by tapping the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth | Receive Contact or File.
- 2 Now you are ready to send a contact. Go to your Contacts folder.

3 Tap and hold your stylus on the contact(s) you would like to send. In the pop-up menu, select Send Via Bluetooth.



4 If your mobile computer has no devices in the Bluetooth Devices Folder, then it will begin to search for Bluetooth devices nearby.



5 Select the Bluetooth device you wish to send the contact(s) to. If the desired device is not listed, tap Find.

Socket OBEX	4 € \$17
Cevice Malle	
Podiet_PC_sode	
	E.
Choose the desired device is a to search for one that is Tap Cancel to abandon to	at shown, tap Rind ay be in range.
Select Rod	Cancel

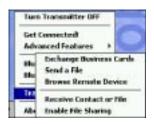
6 Your mobile computer will process and send the contact(s).



Send a File

Send a File

- 1 Make sure the other Bluetooth device is set up to receive a file. It must support the OBEX Object Push server profile. Refer to the documentation that came with the device for instructions.
- *Note:* If the other device is also using the Bluetooth Connection Kit, you can set it up to receive a file by tapping the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth | Receive Contact or File.
- 2 Now you are ready to send a file. Tap on the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth | Send a File.



3 If your mobile computer has no devices in the Bluetooth Devices Folder, then it will begin to search for Bluetooth devices nearby.

Bluetooth Device Search		
	Looking for Bluebooth device(a)	
	Time remaining:	
	HUILION HUILION HUILION	

4 Select the Bluetooth device you wish to send a file. If the desired device is not listed, tap Find.



5 In the next screen, tap on the file you wish to send. You can use the Folder and Type drop-down menus to search for your file. Also, you can scroll horizontally to view the folder, date, size, type, and location of each file.

Socket 080	6 - S	46 551	
Open			
Folder: All Folde	rs •	Cancel	
Type: All Files ((*.*)		•
Nane 🔺	Folder	Date	
3063852 510		9/13 5:09	
Blank Docu	Temple	5/22 12/	_
Blank Note	Templa	5/22 12:0	
Buetooth D	- 10-0000000 	5/22 7:40	
Dtsws_107		9/13 9/20	
Image(01)	Divetoo	9/12 11:	
Egolmbrn 🗉		9/106:25	
Meeting No	Templa	5/22 12:0	
Adaption bin	Tand	minn 10.1	-

6 Your mobile computer will send the file.

Send a	File	×
₽	Sending file	
1111		
	Corce	á -

Browse Remote Device

The Bluetooth File Explorer lets your mobile computer share files with another Bluetooth device. The other device must support the OBEX File Transfer server profile.

This section covers the following file transfer operations:

- Prepare for file transfer
- Send/receive file(s) or folder(s)
- Create a folder
- Delete file(s) or folder(s)
- Refresh remote view
- Connect/disconnect
- Exit the program

Note: "Local device" refers to the mobile computer you are running the OBEX from. "Remote device" refers to the Bluetooth device you are trying to transfer files with.

Prepare for File Transfer

1 Make sure the remote device has file sharing enabled. It must support the OBEX File Transfer server profile.

Note: If the other device is also using the Bluetooth Connection Kit, you can enable file sharing by tapping the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth | Enable File Sharing.

2 Now you are ready to browse the remote device. Tap on the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth I Browse Remote Device.



3 If your mobile computer has no devices in the Bluetooth Devices Folder that supports OBEX File Transfer, then it will begin to search for Bluetooth devices nearby.



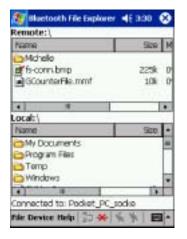
4 Select the Bluetooth device you wish to browse. If the desired device is not listed, tap Find.



5 Your mobile computer will begin to establish a file sharing connection.

Working		×
Prese wat	Cancel	

6 After the devices successfully connect, the Bluetooth File Explorer will appear. Half of the screen shows contents of the remote device, while the other half shows contents of your device (the local device). The very bottom of the screen reports the connection status.



Send/Receive File(s) or Folder(s)

- Single-tap items to select them for transfer.
- Double-tap on a folders to open it and see its contents.

Complete these steps:

1 Select the file(s) or folder(s) that you wish to transfer. You can select items from only one device per transfer session.

🔊 Blactooth File Explore	e 46 330 🛞
Remote:)	
Name	Size M
Mchele	
estancard.bmp	225k 0
Tis-com.bmp	225k 0
GCounterFile.mmf	10k D
Local: Wy Documents	2
Name	500 +
 Buetooth Shared Fol Business 	
Personal	
A BATTATA A CONTRACT	10 10
Connected to: Pocket_PC_	socke
file Device Help 👘 🔆	**

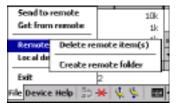
- 2 There are two different ways to initiate the transfer:
 - Tap on the File menu. Select Send to remote or Get from remote, as applicable. The inappropriate option should be gray.
 - Tap on the Send to remote icon or Get from remote icon, as applicable. The inappropriate icon should be gray.
- 3 A screen will report the status of the transfer.

Working		×
F Reading file: fs-corn.bmp		
	316	- 2
	Cancel	d E

4 After the transfer, a copy of each selected item should appear in the other device.

Create a Folder

1 Tap on the File menu. Select Remote device or Local device, wherever you want to create a folder, then tap Create remote folder or Create local folder, as applicable.



2 Alternatively, on the Dolphin 9500/9550, you can tap and hold your stylus on an item in either the remote or local device that you wish to put in a new folder. In the pop-up menu, select Create folder.

btsws_107_st	tinal 539 Delete
4	Create folder

3 In the next screen, enter a name for your new folder. Tap OK.



4 The new folder should be listed under the appropriate device.

Delete File(s) or Folder(s)

- 1 Select item(s) that you wish to delete. You can only delete item(s) from one device at a time.
- 2 Tap on the File menu. Select Remote device or Local device, wherever the item(s) are located, then tap Delete remote item(s) or Delete local item(s), as applicable.

Send to r		10k
Get from Remote		1k mote item(s)
Loc al de		mote folder
Exit		2
le Device	Help 😭	× 🔍 🖌 📼

3 Tap and hold your stylus an item in either the remote or local device that you wish to put in a new folder. In the pop-up menu, select Delete folder.

Contraction of the second seco	k fost - 539k
	Delete
	Create folder
4	

4 In the Confirm screen, tap Yes.



Refresh Remote View

1 Tap on the Device menu. Select Refresh remote view.

Ы	Connect	18
H	Disconnect	18 -
Con	Refresh remote view	
File	Device Help 💱 🔆	\$ B

2 Your local device will begin to read the contents of the remote device.

3 After a few seconds, the view of the contents of the remote device will be refreshed.

Connect/Disconnect

To connect to the remote device, do the following:

- 1 Make sure the remote device has file sharing enabled.
- 2 Start the connection process by either of two methods:
- . Tap on the Device menu. Select Connect.
- • Tap on the Connect icon.
- 3 In the next screen, select the device you wish to connect to. Tap Select. Your mobile computer will attempt to connect to the device selected.

To disconnect from the remote device, do the following:

- 1 Start the disconnection process by either of two methods:
- · Tap on the Device menu. Select Disconnect.
- Tap on the Connect icon.
- 2 Your mobile computer will disconnect from the remote device. Afterwards, no contents will be listed for the remote device.

Exit Bluetooth File Explorer

To exit the Bluetooth File Explorer, tap File | Exit.



Receive Contact or File

- 1 Tap on the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth | Receive Contact or File.
 - Turn Transmitter OFF Get Connected Advanced Fealures Bib Send a File Browse Remote Device Top Receive Contact or Hin trable File Sharing
- 2 The Receive Contact or File status screen will appear. Your mobile computer will wait two minutes for the contact or file.

Ready to	receive.
N	
Waiting for o	onnection - 1:38

- **3** After successfully connecting to the remote device, the screen will report Connected then disappear. The new contact or file should now be on your device.
- 4 If two minutes passes before you receive the item, tap Wait Again.
- 5 After you receive the file or contact, the "Receive Contact or File" feature is automatically disabled.

Enable File Sharing

- 1 Tap on the Bluetooth icon. In the pop-up menu, tap Transfer via Bluetooth | Enable File Sharing.
- 2 The Enable File Sharing status screen will appear. Your mobile computer will wait two minutes for the remote device to connect.



- 3 After successfully connecting to the remote device, the screen will report Connected.
- 4 If two minutes passes before you connect, tap Wait Again.
- 5 File sharing will be enabled until you end it by tapping Cancel.

The Dialer

This section explains how to assign a dialing prefix and use the Dialer to dial a number directly from your Contacts list. The Dialer makes it quick and easy to perform dial-up networking.

If you have not done so already, be sure to run the Dialer Installer from the Bluetooth Card Installation CD. While installing the program, you can also assign the dialing prefix.

Note: The Dialer has been verified to work with Nokia and Ericcson phones and is known not to work with the Motorola 270c, NTT Docomo Paldio 633S or Sony au C413S phone. Results may vary with other phones that are not listed as being supported by the Bluetooth system.

Assign a Dialing Prefix

If you have not already assigned a dialing prefix during the install process, you can do so by following these steps:

- 1 Go to Start | Settings | System. Tap on Dialer.
- 2 Select the appropriate Dialing Prefix, then tap ok.

Use the Dialer

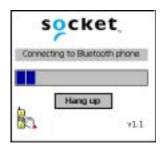
- 1 To use the dialer, the mobile computer must already be connected to the Bluetooth phone. You can use the Get Connected! Wizard to do this. Also, the Bluetooth phone must be selected as your favorite.
- 2 Go to Start | Contacts.
- **3** Tap and hold your stylus on the contact you wish to dial to. In the pop-up menu, select Dial Contact. Alternatively, you can tap on Tools and select Dial Contact.

Contacts	9:534
Il Categories +	une are
Dial Contact	w
Create Copy Delete Contact	
Send E-mail to Contact Send via Infrared	
ew Tools	-

4 If you have multiple phone numbers for a contact, a screen will appear listing them, including any dialing prefix you may have assigned. Select the phone number you wish to dial.



5 Your mobile computer will connect to your phone and begin dialing.



Note: The Dialer can dial a phone number containing any of the 17 following non-numeric characters:

* # + . / ! @ - \ space A B C D T P W

Additionally, the following string can be included in a phone number:

(',')

The Dialer can not dial a phone number containing non-numeric characters other than those listed above.

HHP recommends that you follow the standard Microsoft Outlook format for phone numbers.

Get Connected Wizard

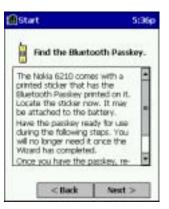
The Get Connected! Wizard guides you through a one-time setup process that prepares the mobile computer and phone for Bluetooth connections. The wizard varies depending on what phone you want to connect to.

Ericsson, Nokia 6210, NTT DoCoMo, Sony Phones

- 1 Tap on the Bluetooth task tray icon. In the pop-up menu, select Get Connected!
- 2 Follow the Bluetooth "Get Connected!" Wizard. In the second screen, use the drop-down list to select your Bluetooth phone. The wizard will provide tailored instructions based on your selection.



- **3** Follow the next screen(s) to prepare your specific phone for Bluetooth connections. You may need to do 1, 2 or all of the following steps:
- a. Naming your Bluetooth phone
- b. Setting your Bluetooth phone in Discoverable mode
- c. Preparing your Bluetooth passkey.



4 When the search is complete, a list of the discovered Bluetooth phones will appear. Choose the phone you wish to connect to, and tap Select. A service discovery phase will begin, about 5-10 seconds.

_		
redphane	and tap	Select.
search aga	n, tap P	tefreit.
bandon the	operat	ion.
	search aga bondon this	red phone and tap search again, tap I bondon this operat

5 As prompted in the next screen, prepare your phone for bonding. For instructions on setting your phone to "Bondable" or "Pairable" mode, refer to your phone manual. Have your passkey ready, then tap Next>.

6 In the next screen, enter the passkey. Tap Reply.



7 The mobile phone may then either automatically accept the passkey or ask you to enter one. If prompted for a passkey, use the same one you entered on the mobile computer.

Ericsson T68/T68i only: When the phone asks you if you want to bond, select 2: Add to paired devices. Do not tap ACCEPT.

8 Tap Finish. After successfully connecting, the phone will appear in the Bluetooth Devices folder. In the Today screen, the Bluetooth icon will also blink. You will not need to run the Get Connected! Wizard again unless you plan to switch between different phones.

Note: You may also switch between different phones by assigning a new "favorite phone" in the Bluetooth Devices folder.

Motorola Timeport 270C, Nokia 3650/6310/7650/8910/8910i

- 1 Tap on the Bluetooth task tray icon 8. In the pop-up menu, select Get Connected!
- 2 Follow the Bluetooth "Get Connected!" Wizard. In the second screen, use the drop-down list to select your Bluetooth phone. The wizard will provide tailored instructions for your phone.

Note: The screens below are for the Nokia 7650.

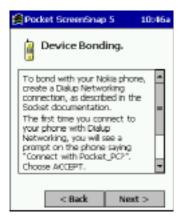
- **3** As directed in the next two screens, assign the phone a unique name and set the phone in Discoverable mode. Then tap Next>.
- 4 The mobile computer will begin to search for the phone. When the search is over, a list of the discovered Bluetooth phones will appear.

Start 10:45a
Device Name
NoNa7650
Choose the desired phone and tap Select.
To perform the search again, tap Refresh. Tap Cancel to abandon this operation.
Select Refresh Cancel

Choose the phone you wish to connect to, and tap Select. A service discovery phase will begin, about 5-10 seconds.

5 The next two screens describe procedures you can only complete outside of the wizard. Read through each screen but do not complete the described procedures until you exit the wizard. Directions for these procedures are provided in STEP 7: Dial-up to Your Network, starting on the next page. The two procedures are:

Bonding with your phone - This must be completed in order to complete the Bluetooth connection and involves dial-up networking.



Automatic Connections - This procedure is optional but will make future Bluetooth connections more convenient.

👩 Poc	ket ScreenSnap	5 1	0:47a	
Automatic Connections.				
AFTER Initial use, you can make your phone automatically accept connections from your PDA. See the Socket Bluetooth User's Guide for additional details.				
	< Back	Next :		

6 Continue to the last screen of the wizard and tap Finish. Now proceed to STEP 6 to complete the bonding process and, if desired, set up automatic connections.

Dial-up to Your Network

Complete the following steps to create a new Bluetooth connection. Before setting up dial-up networking, prepare yourself with dial-up information and other necessary settings for your office network or ISP.

1 Go to Start | Settings | Connections. Tap on the Connections icon. In the top field, select Internet Settings. Tap Modify... In the next screen, tap New...

A -	ittings 🚅 ◀€ 2:36 🖒	ff Settings	10:43a 🛞
Conne	ections	Modern Connections	
1	when needed, automatically connect to The Internet using these settings:	New Connection	
-	Internet Settings - Modify		
-	When needed, automatically connect to Work using these settings:		
	My Connection 10		
2	My network card connects to:	Connections Dialing	
Conner	tions Dialing Locations	To start a modern connect Connections folder	tion, go to the

2 In the next screen, enter a name for the dial-up connection. For the modem, select Bluetooth Phone. For the Baud Rate, select 115200. Tap Advanced...

Settings	5:18p			
Make New Connection				
Enter a name for the connection	n;			
Bluetooth Acmenet				
Select a moderu				
Bluetooth Phone				
Baud Rate:				
115200 •	vivanced			
Cancel Buck	Newt			

- Note: Remember what you name the connection. You will need it when you start the connection.
- 3 The Port Settings screen will appear. If needed, tap on the TCP/IP and/or Name Servers screens to enter any necessary settings for your office network or ISP. Tap ok.

E Setting	5	11:144 🛞
Advanced		
Cise serv	er-assig	ned IP address
O Use spe	cific IP a	ddress
Use Sip		- 242
Use soft	wate co	mpression
Use IP h	leader c	ompression
Port Settings	TOMP	Nome Servers

- 4 Tap Next.
- 5 In the Phone number field, enter the dial-up number. Tap Next.

6 Uncheck Wait for dial tone before dialing. Tap Finish.



7 Now you are ready to start the connection. In the Connections screen, under Internet Settings, tap Connect. In Network Log On, verify the dialing settings. Tap OK.

Connect To 10					
Bluetoath	AcmeNet				
User name:	ABCDEFG				
Password:					
Dorsam					
Phone:	Save pastword T1234967 Home +				
Dial from:					
Cancel	Connect	Dialog Options_			

8 ONLY FOR MOTOROLA TIMEPORT 270C OR NOKIA 3650/6310/7650/8910/8910i:

- a) After you tap Connect for the first time, the phone will display a message asking if you want to bond. On Motorola, enter GRANT; on Nokia, enter ACCEPT.
- b) Make up a 4-16 digit passkey, enter it on the phone, then enter it on the Dolphin 9500/9550.



Note: The Bluetooth icon on the Today screen will blink to indicate a connection.

c) After successfully bonding, you can set up the phone to automatically connect to your Dolphin 9500/9550 without requiring a passkey.

Automatic Connections for Motorola Timeport 270C:

- On the phone, press MENU.
- Scroll to Settings, then press SELECT.
- Scroll to Connection, then press ON.
- On Bluetooth Link, press SELECT.
- Scroll to Devices, then press SELECT.
- Choose your mobile computer, then press EDIT.
- Scroll to Access:Ask, then press CHANGE.
- Scroll to Automatic, then press SELECT. Press DONE.

Automatic Connections for Nokia 3650/7650:

- On the phone, press MENU.
- Scroll to Connectivity, then press Options.
- The Open option should be highlighted. Press Select.
- The Bluetooth option should be highlighted. Press Options.
- The Open option should be highlighted. Press Select.
- Scroll to the right tab to access the Paired devices list. Highlight your mobile computer, then press Options.
- Scroll to Set as authorized, then press Select.
- In the confirmation screen, press Yes.

Automatic Connections for Nokia 6310/8910/8910i:

- On the phone, press MENU.
- Scroll to 10 Bluetooth, then press SELECT.
- Scroll to 4 View Paired Devices, then press SELECT.
- Highlight the Dolphin 9500/9550, then press OPTIONS.
- Scroll to 3 Request Connection Authorization, then press NO.

To use a different Bluetooth phone for dial-up networking, you can use the same connection setup, but you must make the new phone your favorite. Just run the Get Connected! Wizard again, select the new phone, and make it your new Favorite when prompted.

Favorite Phone		
Nokia7650 is currently your favorite (default) phone. Would you like to change it to Nokia 89107		
	Yes No	

Alternatively, you can use the Bluetooth Devices folder to change your favorite phone. Refer to *Using the Dolphin 9500/9550 Mobile Computer* beginning on page 4-1 for instructions.

Chapter 6 - Customizing Your Dolphin 9500/9550

You can customize your Dolphin 9500/9550 by

- · adjusting device settings and
- installing additional software.

Adjusting Device Settings

You can adjust device settings to suit the way you work. To see available options, tap Start > Settings > Personal or System tab located at the bottom of the screen.

You might want to adjust the following:

Clock	to change the time or to set alarms
Menus	to customize what appears on the Start menu, and to enable a pop-up menu from the New button
Owner Information	to enter your contact information
Password	to limit access to your device
Power	to maximize battery life
Today	to customize the look and the information that is displayed on the Today screen

Installing additional software

Programs added to your device at the factory are stored in FLASH. You cannot remove this software, and you'll never accidentally lose FLASH contents. FLASH programs can be updated using special installation programs with a *.xip extension. All other programs and data files added to your device after factory installation are stored in RAM (random access memory).

You can install any program created for your device, as long as your device has enough memory. The most popular place to find software for your device is on the Pocket PC Web site (http://www.microsoft.com/mobile/pocketpc).

To add programs using ActiveSync

You'll need to install the appropriate software for your device on your desktop computer before installing it on your device.

- 1 Determine your device and processor type so that you know which version of the software to install. Tap Start > Settings > System tab > About. The Version tab appears displaying the current information.
- 2 On the Version tab, make a note of the information in the Processor section.
- 3 Download the program to your desktop computer (or insert the CD or disk that contains the program into your desktop computer). You may see a single *.xip, *.exe, or *.zip file, a Setup.exe file, or several versions of files for different device types and processors. Be sure to select the program designed for the Pocket PC and your device processor type.
- 4 Read any installation instructions, Read Me files, or documentation that comes with the program. Many programs provide special installation instructions.
- 5 Connect your device and desktop computer.
- 6 Double-click the *.exe file.

If the file is an installer, the installation wizard will begin. Follow the directions on the screen. Once the software has been installed on your desktop computer, the installer will automatically transfer the software to your device.

If the file is not an installer, you will see an error message stating that the program is valid but it is designed for a different type of computer. You will need to move this file to your device. If you cannot find any installation instructions for the program in the Read Me file or documentation, use ActiveSync Explore to copy the program file to the Program Files folder on your device. For more information on copying files using ActiveSync, see ActiveSync Help.

Once installation is complete, tap Start, Programs, and then the program icon to switch to it.

To add a program directly from the Internet

- 1 Determine your device and processor type so that you know which version of the software to install. Tap **Start** and then **Settings**. On the **System** tab, tap **About**. In the **Version** tab, make a note of the information in **Processor**.
- 2 Download the program to your device straight from the Internet using Pocket Internet Explorer. You may see a single *.xip, *.exe or *.zip file, a Setup.exe file, or several versions of files for different device types and processors. Be sure to select the program designed for the Pocket PC and your device processor type.
- **3** Read any installation instructions, Read Me files, or documentation that comes with the program. Many programs provide special installation instructions.
- 4 Tap the file, such as a *.xip or *.exe file. The installation wizard will begin. Follow the directions on the screen.

Adding a Program to the Start Menu

Tap Start > Settings > Menus > Start Menu tab. Tap the check box for the program you want to add.

If you do not see the program listed, you can either use File Explorer on the device to move the program to the Start Menu folder, or use ActiveSync on the desktop computer to create a shortcut to the program and place the shortcut in the Start Menu folder.

Note: We recommend that you copy and paste special so that you do not alter your program configurations by accident.

- 1 Tap Start > Programs > File Explorer, and locate the program (tap the folder list, labeled My Documents by default, and then My Device to see a list of all folders on the device).
- 2 Tap and hold the program and tap **Cut** on the pop-up menu.
- **3** Open the Start Menu folder located in the Windows folder, tap and hold a blank area of the window, and tap **Paste** on the pop-up menu.

4 The program should now appear on the Start menu.

Using ActiveSync on the desktop computer: Use the Explorer in ActiveSync to explore your device files and locate the program. Right-click the program, and then click **Create Shortcut**. Move the shortcut to the Start Menu folder in the Windows folder. The shortcut now appears on the Start menu. For more information, see ActiveSync Help.

Removing Programs

Tap Start > Settings > System tab > Remove Programs.

If the program does not appear in the list of installed programs, use File Explorer on your device to locate the program, tap and hold the program, and then tap **Delete** on the pop-up menu.

Chapter 7 - Applications

Microsoft® Pocket Outlook includes Calendar, Contacts, Tasks, Inbox, and Notes. You can use these programs individually or together. For example, e-mail addresses stored in Contacts can be used to address e-mail messages in Inbox.

Using Microsoft® ActiveSync®, you can synchronize information in Microsoft Outlook or Microsoft Exchange on your desktop computer with your device. You can also synchronize this information directly with a Microsoft Exchange server. Each time you synchronize, ActiveSync compares the changes you made on your device and desktop computer or server and updates both computers with the latest information. For information on using ActiveSync, see ActiveSync Help on the desktop computer.

You can switch to any of these programs by tapping them on the Start menu.

Calendar: Scheduling Appointments and Meetings

Use Calendar to schedule appointments, including meetings and other events. You can check your appointments in one of several views (Agenda, Day, Week, Month, and Year) and easily switch views by using the **View** menu.

🔊 Calendar 🛛 📢 7:25 🛞	
Aug 06,00 🗧 M T W T F S 🕇 🕨	— Tap to go to today.
Working at home	
Lunch w/ Adam 12:00p-1:00p (Corner Cafe)	— Tap to display or edit the appointment details.
Status Meeting 3:00p-4:00p	
New Tools 🔄 📑 📑 📴 🔹 🔤 📥	
Tap to create a new appointment.	

Calendar Application

Note: You can customize the Calendar display, such as changing the first day of the week, by tapping **Options** on the **Tools** menu.

To create an appointment:

- 1 If you are in Day or Week view, tap the desired date and time for the appointment.
- 2 Tap New.

	Tap to return to the calenda (the appointment is saved automatically).	ar	
<i>ि</i> Calendar	√ € 8:52	❹2	Tap to choose from predefined text.
Subject:		╺╴╢┙	
Location:		•	Tap to choose from previously entered locations.
Starts:	8/6/00 12:00 PM	•	previously entered locations.
Ends:	8/6/00 1:00 PM	-	Tap to select a time.
Type:	Normal		Tap to select a date.
Occurs:	Once		
Reminder:	Remind me		
	15 minute(s)		
Categories	No categories		
Appointment	Notes		Notes is a good place
123 1 2 3	4 5 6 7 8 9 0 - =	+	for maps and directions.
Tahi Qi Wi e	r t v u i o p f		

k

↓ | ↑ | ←

3 Using the input panel, enter a description and a location. Tap first to select the field.

Entering an Appointment

CAP a s d f g h

١

Shift Z X C Y b n m

4 If needed, tap the date and time to change them.

Cti áü

Edit

- 5 Enter other desired information. You will need to hide the input panel to see all available fields.
- 6 To add notes, tap the **Notes** tab. You can enter text, draw, or create a recording. For more information on creating notes, refer to Notes on page 7-11.
- 7 When finished, tap OK to return to the calendar.
- *Note:* If you select **Remind me** in an appointment, your device will remind you according to the options set in **Start**, **Settings**, **Personal** tab, **Sounds & Reminders**.

Using the Summary Screen

When you tap an appointment in Calendar, a summary screen is displayed. To change the appointment, tap Edit.

🎊 Calendar	◀€ 9:11	•	
Lunch w/ Adam		Ä	
12:00p-1:00p Sun, 8/6/200 Corner Cafe	10		View appointment detail
Remember portfolio.			View.
Edit Tools	E	≖ ≁	
	-Tap to cha appointme	inge ent.	

Appointment Summary Screen

Creating Meeting Requests

You can use Calendar to set up meetings with users of Outlook or Pocket Outlook. The meeting request will be created automatically and sent either when you synchronize Inbox or when you connect to your e-mail server. Indicate how you want meeting requests sent by tapping **Tools** and then **Options**. If you send and receive e-mail messages through ActiveSync, select **ActiveSync**.

To schedule a meeting:

- **1** Create an appointment.
- 2 In the appointment details, hide the input panel, and then tap Attendees.
- 3 From the list of e-mail addresses you've entered in Contacts, select the meeting attendees.

The meeting notice is created automatically and placed in the Outbox folder.

For more information on sending and receiving meeting requests, see Calendar Help and Inbox Help on the device.

Contacts

Contacts maintains a list of your friends and colleagues so that you can easily find the information you're looking for, whether you're at home or on the road. Using the device infrared (IR) port, you can quickly share Contacts information with other device users.

	Select the category you want displaye		
🎊 Contacts		({ 2:06 🛛 🛞	
All Contacts #ab cde fgh Barr, Adam Bready, Richa Reown To Create Cop Delete Con Send E-ma Beam Cont	ijk Imn opq r (206) 555-1 (206) 555-1 (206) 555-1 y tact il to Contact act	ware <mark>e</mark>	 Tap and enter part of a name to quickly find it in the list. Tap to see additional phone numbers and e-mail addresses. Tap to display or edit the contact details. Tap and hold to display a pop-up menu of actions.
		1	I

Tap to create a new contact.

Contact Application

Note: To change the way information is displayed in the list, tap **Tools** and then **Options**.

To create a contact:

1 Tap New.

	Tap to return to the contact list (the contact is saved automatically).	
🎊 Contacts	📢 7:38 🛛 🐽	
Name:	▼ ▲	
Job title:		
Department:	≡	
Company:		
Work tel:		
Work fax:		
Work addr:	•	
E-mail:		
Mob <u>ile tel:</u>	▼	 Scroll to see more fields.
Details Notes		Notes is a good place
123 1 2 3 4	5 6 7 8 9 0 - = 🗲	for maps and directions.
Tab q w e i	r t y u i o p []	
CAP a s d	f g h j k l ; '	
Shift z x c	▼ b n m _/ . / ←	
Ctl áü ` \	↓ ↑ ← →	
Edit		

Creating a Contact

- 2 Using the input panel, enter a name and other contact information. You will need to scroll down to see all available fields.
- **3** To assign the contact to a category, scroll to and tap **Categories** and select a category from the list. In the contact list, you can display contacts by category.
- 4 To add notes, tap the **Notes** tab. You can enter text, draw, or create a recording. For more information on creating notes, refer to Notes on page 7-11.
- 5 When finished, tap **OK** to return to the contact list.

There are four ways to find a contact:

- In the contact list, enter a contact name in the box under the navigation bar. To show all contacts again, clear text from the box or tap the button to the right of the box.
- In the contact list, tap the category list (labeled All Contacts by default) and select the type of contact that you want displayed. To show all contacts again, select All Contacts. To view a contact not assigned to a category, select None.
- To view the names of companies your contacts work for, in the contact list, tap View > By Company. The number of contacts that work for that company will be displayed to the right of the company name.
- Tap 22, Find, enter the contact name, select Contacts for the type, and then tap Go.

Using the Summary Screen

When you tap a contact in the contact list, a summary screen is displayed. To change the contact information, tap Edit.

ह Contacts	🔫 9:07 🛛 🐽	
Adam Gabor		
Programmer		View contact details.
R&D		
Inspired Technologies		
(206) 555-1212	Work tel	
111 First St.	Work addr	
Summary Notes		—— Tap to view notes.
Edit Tools	₩.	
Tap to change contact i	nformation.	-

Contacts Summary Screen

Tasks

Use Tasks to keep track of what you have to do.



Note: To change the way information is displayed in the list, tap Tools and then Options.

To create a task:

1 Tap New.

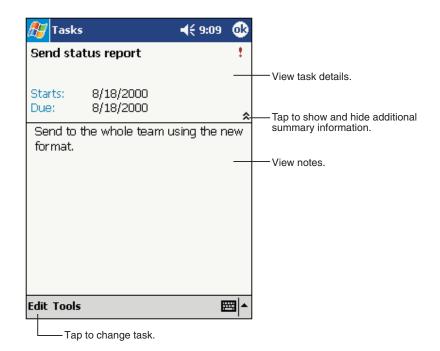
	Tap to return to the task list (the task is saved automatically).	
🎊 Tasks	📢 8:49 🐽	
Subject:	▼	
Priority:	Normal	predefined subjects.
Status:	Not Completed	
Starts:	None	
Due:	None	
Occurs:	Once	
Reminder:	None	
Categories:	No categories	
Task Notes		
123 1 2 3	4 5 6 7 8 9 0 - = 🗲	for maps and drawings
Tab q w e	r t y u i o p []	
CAP a s c	1 f g h j k l ;	
Sinc =	< v b n m ₇ . / ←	
Ctl áü 🔪 🛝	│	
Edit		

Creating a Task

- **2** Using the input panel, enter a description.
- 3 You can enter a start date and due date or enter other information by first tapping the field. If the input panel is open, you will need to hide it to see all available fields.
- 4 To assign the task to a category, tap **Categories** and select a category from the list. In the task list, you can display tasks by category.
- 5 To add notes, tap the **Notes** tab. You can enter text, draw, or create a recording. For more information on creating notes, refer to Notes on page 7-11.
- 6 When finished, tap OK to return to the task list.
- Note: To quickly create a task with only a subject, tap **Entry Bar** on the **Tools** menu. Then, tap **Tap here to add a new task** and enter your task information.

Using the Summary Screen

When you tap a task in the task list, a summary screen is displayed. To change the task, tap Edit.



Task Summary Screen

Notes

Quickly capture thoughts, reminders, ideas, drawings, and phone numbers with Notes. You can create a written note or a recording. You can also include a recording in a note. If a note is open when you create the recording, it will be included in the note as an icon. If the note list is displayed, it will be created as a stand-alone recording.

		_	
🎊 Notes		8:55 🛞	
🖰 All Folders 👻		Name 🚽	
🔙 Business 1	8:54 a	424b	order of the list.
📒 Outlook Notes 1	8:54 a	428b	
🧾 Personal 1	8:54 a	424b	
Create Copy	8:54 a	432b	— Tap to open a note or play a recording.
Delete Select All			— Tap and hold to display a pop-up menu of actions
Send via E-mail Beam File			
Rename/Move			
[— Tap to record.
<u>•</u> ■ ▶ <u> </u> <u>0</u> ===		< ▶ • ●	
New Tools 🖭		■	Tap to show or hide the
Tap to create a new it	em.		Recording toolbar.

Notes Application

To create a note:

- 1 Tap New.
- 2 Create your note by writing, drawing, typing, and recording. For more information about using the input panel, writing and drawing on the screen, and creating recordings, see *Using the Dolphin 9500/9550 Mobile Computer* beginning on page 4-1.

	Tap to return to the note list (the note is saved automatically).	
Notes	4 € 8:59 🧔	
Team meeting n	otes:	E
Adam will send o team.	urrent status to core	-
Julie will get the	revenue numbers.	
	om the conference the product was a	
		*
123 1 2 3 4 5	67890-=	•
Tab q w e r CAP a s d f	t y u i o p [1
Shift z x c y		1
Ctl áŭ ' \		→
New Edit Tools	Tap to write on the sc	Tap to show or hide the input panel.
	Tap to add a recording to the note.	

Creating a Note

Inbox

Use Inbox to send and receive e-mail messages in either of these ways:

- Synchronize e-mail messages with Microsoft Exchange or Microsoft Outlook on your desktop computer.
- Send and receive e-mail messages by connecting directly to an e-mail server through an Internet service provider (ISP) or a network.

Synchronizing E-mail Messages

E-mail messages can be synchronized as part of the general synchronization process. You will need to enable Inbox synchronization in ActiveSync. For information on enabling Inbox synchronization, see ActiveSync Help on the desktop computer.

During synchronization:

- Messages are copied from the mail folders of Exchange or Outlook on your desktop computer to the ActiveSync folder in Inbox on your device. By default, you will receive messages from the past three days only, the first 100 lines of each message, and file attachments of less than 100 KB in size.
- E-mail messages in the Outbox folder on your device are transferred to Exchange or Outlook, and then sent from those programs.
- E-mail messages in subfolders must be selected in ActiveSync on your desktop computer in order to be transferred.
- *Note:* You can also synchronize e-mail messages with your desktop computer from a remote location. For more information, see Chapter 7.

Connecting Directly to an E-mail Server

In addition to synchronizing e-mail messages with your desktop computer, you can send and receive e-mail messages by connecting to an e-mail server.

When you connect to the e-mail server, new messages are downloaded to the device Inbox folder, messages in the device Outbox folder are sent, and messages that have been deleted on the e-mail server are removed from the device Inbox folder.

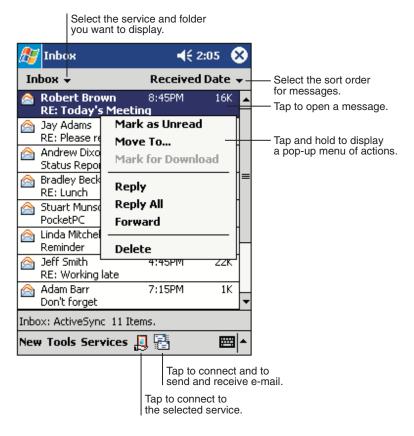
Messages that you receive directly from an e-mail server are linked to your e-mail server rather than your desktop computer. When you delete a message on your device, it is also deleted from the e-mail server the next time you connect based on the settings you selected in ActiveSync.

You can work online or offline. When working online, you read and respond to messages while connected to the e-mail server. Messages are sent as soon as you tap **Send**, which saves space on your device.

When working offline, once you've downloaded new message headers or partial messages, you can disconnect from the e-mail server and then decide which messages to download completely. The next time you connect, Inbox downloads the complete messages you've marked for retrieval and sends the messages you've composed.

Using the Message List

Messages you receive are displayed in the message list. By default, the most recently received messages are displayed first in the list.



InBox Application

When you receive a message, tap it to open it. Unread messages are displayed in bold.

🎊 Inbox	€ 2:17	❹2	Tap to return to
From: Robert Brown Subject: RE: Today's Meetin Sent: 4/23/01 8:45:47 A	-		the message list.
Just a reminder to bring schedules for the next 2 you. We will be discussir timelines.	2 quarters with	n	
Thanks, Bob			
			—— Tap to delete this message.
New Edit 🙀 📑 合 🗇		≊ ^	
or r Tap to rep	to view the pre text message. y to or s message.	evious	5

Viewing A Message

When you connect to your e-mail server or synchronize with your desktop computer, by default, you'll receive messages from the last five days only, the first 100 lines of each new message, and file attachments of less than 100 KB in size. The original messages remain on the e-mail server or your desktop computer.

You can mark the messages that you want to retrieve in full during your next synchronization or e-mail server connection. In the message list, tap and hold the message you want to retrieve. On the pop-up menu, tap **Mark for Download**. The icons in the Inbox message list give you visual indications of message status.

You specify your downloading preferences when you set up the service or select your synchronization options. You can change them at any time:

- Change options for Inbox synchronization using ActiveSync options. For more information, see ActiveSync Help.
- Change options for direct e-mail server connections in Inbox on your device. Tap **Tools** and then tap **Options**. On the **Service** tab, tap the service you want to change. Tap and hold the service and select **Delete** to remove a service.

Composing Messages

To compose a message:

- 1 Tap New.
- 2 In the **To** field, enter an e-mail or SMS address of one or more recipients, separating them with a semicolon, or select a name from the contact list by tapping the **Address Book** button.
 All a mail fields in Contact or provide the Address Book button.

All e-mail addresses entered in the e-mail fields in Contacts appear in the Address Book.

Tap to send the	message.			
🔊 Inbox		4 € 2:19	•	
			*	
				the complete header.
New Edit My Text	🎦 🖂	Ē	≊ ^	
	Tap	o to show / h ording toolb	ide th ar.	e
	Tap to o	display the A	ddres	s Book.
Ta	p to insert	common me	essage	es.

Creating a Message

- Compose your message. To enter preset or frequently used messages, tap My Text and select a message.
- Tap **Send** when you've finished the message. If you are working offline, the message is moved to the Outbox folder and will be sent the next time you connect.

If you are sending an SMS message and want to know if it was received, tap **Edit, Options**, and select **Request SMS text message delivery notification** before sending the message.

Managing E-mail Messages and Folders

By default, messages are displayed in one of five folders for each service you have created: Inbox, Deleted Items, Drafts, Outbox, and Sent Items. The Deleted Items folder contains messages that have been deleted on the device. The behavior of the Deleted and Sent Items folders depends on the options you have chosen. In the message list, tap **Tools** and then **Options**. On the **Message** tab, select your options.

If you want to organize messages into additional folders, tap **Tools**, and then **Manage Folders** to create new folders. To move a message to another folder, in the message list, tap and hold the message and then tap **Move to** on the pop-up menu.

Folder behavior with a direct connection to an e-mail server

The behavior of the folders you create depends on whether you are using ActiveSync, SMS, POP3, or IMAP4.

- If you use ActiveSync, e-mail messages in the Inbox folder in Outlook will automatically be synchronized with your device. You can select to synchronize additional folders by designating them for ActiveSync. The folders you create and the messages you move will then be mirrored on the server. For example, if you move two messages from the Inbox folder to a folder named Family, and you have designated Family for synchronization, the server creates a copy of the Family folder and copies the messages into that folder. You can then read the messages while away from your desktop computer.
- If you use SMS, messages are stored in the Inbox folder.
- If you use POP3 and you move e-mail messages to a folder you created, the link is broken between the messages on the device and their copies on the mail server. The next time you connect, the mail server will see that the messages are missing from the device Inbox and delete them from the server. This prevents you from having duplicate copies of a message, but it also means that you will no longer have access to messages that you move to folders created from anywhere except the device.
- If you use IMAP4, the folders you create and the e-mail messages you move are mirrored on the server. Therefore, messages
 are available to you anytime you connect to your mail server, whether it is from your device or desktop computer. This
 synchronization of folders occurs whenever you connect to your mail server, create new folders, or rename/delete folders
 when connected.

Chapter 8 - Synchronizing Your Dolphin 9500/9550

Terminal

Overview

Using Microsoft® ActiveSync®, you can synchronize information on your desktop computer with your device and vice versa. Synchronization compares the data on your Dolphin mobile computer with your desktop computer and updates both with the most recent data.

For example, you can:

- Update the information in Pocket Outlook on your device by synchronizing it with Microsoft Outlook on your desktop computer.
- Synchronize Microsoft Word and Microsoft Excel files between your device and desktop computer. Your files are automatically converted to the correct format.

Capabilities

With ActiveSync, you can also:

- · Back up and restore your device data.
- Copy (rather than synchronize) files between your device and desktop computer.
- Control when synchronization occurs by selecting a synchronization mode. For example, you can synchronize continually
 while connected to your desktop computer or only when you choose the synchronize command.
- Select which information types are synchronized and control how much data is synchronized. For example, you can choose
 how many weeks of past appointments you want synchronized.\
- *Note:* By default, ActiveSync does not automatically synchronize all types of information. Use ActiveSync Options to specify the types of information you want to synchronize. The synchronization process makes the data (in the information types you select) identical on both your desktop computer and your device.

Requirements

To synchronize, ActiveSync *must* be on both your desktop computer and your device. ActiveSync is already installed on your device. Therefore, before you begin, you must install ActiveSync on your desktop computer. The program is on the Pocket PC Companion CD.

To install ActiveSync on your desktop computer, insert the Pocket PC Companion CD into the CD-ROM drive of your desktop computer. Click the yellow arrow, click Start Here, then follow the directions on your screen.

Setting up your desktop computer

When installation of ActiveSync is complete on your desktop computer, the ActiveSync Setup Wizard helps you

- connect your device to your desktop computer,
- set up a partnership so you can synchronize information between your device and your desktop computer, and
- customize your synchronization settings.

Synchronizing from your desktop computer

Because ActiveSync is already installed on your device, your first synchronization process begins automatically when you finish setting up your desktop computer in the wizard.

After your first synchronization, look at Calendar, Contacts, and Tasks on your device. Notice that the same information from Microsoft Outlook on your desktop computer is now on your device, and you didn't have to type a word. Simply disconnect your device from your computer and you're ready to go!

For more information about using ActiveSync on your desktop computer, open ActiveSync (on your desktop computer), then open ActiveSync Help.

Synchronizing from your device

You must have setup ActiveSync on your desktop computer and completed the first synchronization process before you initiate synchronization from your device.

To initiate synchronization from your device, tap **Start**, then **ActiveSync** to begin the process.

🎊 ActiveSync	🕂 11:35 🛞	
Pocket_PC2 Connected	•	 View connection status. Tap to connect and synchronize Tap to stop synchronization.
Synchronize with PC Last Sync: 4/25/01 10:52 AM		View synchronization status.
Tools	≡ •	
Tap to synchronize v change synchronizat	ia IR or ion settings.	

Note: If you have a wireless LAN card, you can synchronize remotely from your device.

For more information about ActiveSync on your device, switch to ActiveSync, tap Start, then Help.

Chapter 9 - Getting Connected

You can exchange information between your Dolphin 9500/9550 and other mobile devices, a desktop computer, a network, or the Internet. You have the following connection options:

- Use the infrared (IR) port on your device to send and receive files between two devices.
- Connect to your Internet service provider (ISP). Once connected, you can send and receive e-mail messages by using Inbox and view Web or WAP pages by using Microsoft® Pocket Internet Explorer. The communication software for creating an ISP connection is already installed on your device. Your service provider will provide software needed to install other services, such as paging and fax services.
- Connect to your desktop computer to synchronize remotely. Once connected, you can synchronize information such as your Pocket Outlook information.

Get Help on Connecting

More information on the procedures described here, as well as information on additional procedures, can be found in the following locations:

- "Inbox: Sending and Receiving E-mail Messages" in Chapter 4.
- Online Help on the device. Tap Start and then Help. Tap View, All Installed Help, and then Inbox or Connections.
- ActiveSync Help on the desktop computer. In ActiveSync, click **Microsoft ActiveSync Help** on the **Help** menu.

For troubleshooting information, go to the Pocket PC Web site at: http://www.microsoft.com/mobile/pocketpc

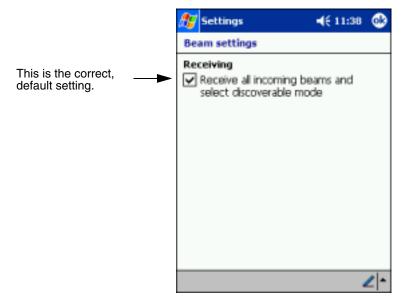
Transfer Items Using Infrared

Using infrared (IR), you can send and receive information, such as contacts and appointments, between two Windows-equipped devices.

Verify Beam Settings

For IR receive to work automatically, the Beam Settings must be correct.

To verify, tap Start > Settings > Connections tab > Beam. The following window should appear.



If this box is not checked, select Start>Programs>Infrared Receive before receiving data from another device. The terminal searches for another device.



To send information

Assuming your Beam Settings are correct:

1 Open the program where you created the item you want to send and locate the item in the list.

- 2 Align the IR ports so that they are unobstructed and within a close range.
- 3 Tap and hold the item, then tap **Beam Item** on the pop-up menu.
- *Note:* You can also send items, but not folders, from File Explorer. Tap and hold the item you want to send, and then tap **Beam** File on the pop-up menu.

To receive information:

- **1** Align the IR ports so that they are unobstructed and within a close range.
- 2 Have the owner of the other device send the information to you. Your device will automatically receive it.

Chapter 10 - Pocket Internet Explorer

Overview

Use Microsoft® Pocket Internet Explorer to view Web or WAP pages in either of these ways:

- During synchronization with your desktop computer, download your favorite links and mobile favorites that are stored in the Mobile Favorites subfolder in Internet Explorer on the desktop computer.
- Connect to an Internet service provider (ISP) or network and browse the Web.

When connected to an ISP or network, you can also download files and programs from the Internet or intranet.

Accessing Pocket Internet Explorer

To switch to Pocket Internet Explorer, tap Start and then Internet Explorer.

🐠 Internet Explorer	
Welcome to Pocket Int Tap below for useful site	
PocketP	C.com
CH	-IP
msn ^M Mo	bile
Avant (Go*
View Tools 🔹 🔂 🛃	<u>⇒® ∠ *</u>

You can use Pocket Internet Explorer to browse Mobile Favorites and channels that have been downloaded to your device without connecting to the Internet. You can also connect to the Internet through an ISP or a network connection and browse the Web.

To browse the Internet on your terminal

- 1 Set up a connection to your ISP or corporate network using Connections; see Getting Connected on page 9-1.
- *Note:* If you select Pocket Internet Explorer before setting up the network connections, a screen may appear allowing you to proceed to the connection settings screen. After you select the settings, you return to Pocket Internet Explorer. To add a favorite link while using the device, go to the page you want to add, tap and hold on the page, and tap Add to Favorites.
- 2 To connect and start browsing, tap View and then Address Bar.
- 3 In the address bar that appears at the top of the screen, enter the Web address you want to visit and then tap Go.
- 4 Tap the arrow to choose from previously entered addresses.

If Mobile Favorites have been set up, you can click one of them to start browsing. See The Mobile Favorites Folder on page 10-2.

The Mobile Favorites Folder

Purpose

The Mobile Favorites folder was created on your desktop computer when you installed ActiveSync. It enables you to create Favorite Links on your desktop computer that you can transfer to your Dolphin 9500/9550 terminal. Those Favorite Links are then available for selection when browsing the internet on your terminal.

Process

First, you create your Favorite Links in the Mobile Favorites folder on your desktop computer. Then, the next time you sync your desktop computer with your terminal, those Mobile Favorites are transferred to the Mobile Favorites folder on to your terminal.

Only items stored in the Mobile Favorites subfolder in the Favorites folder in Internet Explorer on your desktop computer are synchronized with the Mobile Favorites folder on your terminal.

Note: Unless you mark a Favorite Link as a mobile favorite, only the link downloads to your terminal and you will need to connect to your ISP or network to view the content. For more information on synchronization, see ActiveSync Help on the desktop computer.

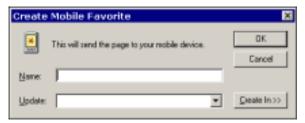
Creating and Synchronizing Mobile Favorites

If you are using Microsoft Internet Explorer 5.0 or later on your desktop computer, you can download Mobile Favorites to your device. Synchronizing mobile favorites downloads Web content to your device so that you can view pages while you are disconnected from your ISP and desktop computer.

Use the Internet Explorer plug-in installed with ActiveSync to create mobile favorites

Complete these steps:

1 On your desktop computer, open Internet Explorer, click **Tools** and then **Create Mobile Favorite**.



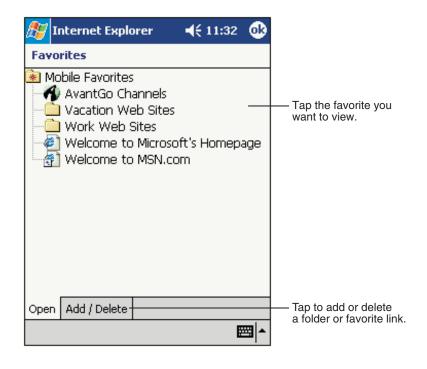
- 2 To change the link name, enter a new name in the Name box.
- 3 Optionally, in **Update**, select a desired update schedule.
- 4 Click OK. Internet Explorer downloads the latest version of the page to your desktop computer.
- 5 If you want to download the pages that are linked to the mobile favorite you just created, in Internet Explorer on the desktop computer, right-click the mobile favorite and then click **Properties**. In the **Download** tab, specify the number of links deep you want to download. To conserve device memory, go only one level deep.
- 6 Synchronize your device and desktop computer. Mobile favorites that are stored in the Mobile Favorites folder in Internet Explorer are downloaded to your device.

If you did not specify an update schedule in Step 3, you will need to manually download content to keep the information updated on your desktop computer and device. Before synchronizing with your device, in Internet Explorer on your desktop computer, click **Tools** and then **Synchronize**. You will see the last time content was downloaded to the desktop computer, and you can manually download content if needed.

You can add a button to the Internet Explorer toolbar for creating mobile favorites. In Internet Explorer on your desktop computer, click **View**, **Toolbars**, and then **Customize**.

To view mobile favorites and channels on the terminal

- **1** Access Pocket Internet Explorer.
- 2 Tap the Favorites button to display your list of favorites



3 Tap the page you want to view.

You'll see the page that was downloaded the last time you synchronized with your desktop computer. If the page is not on your device, the favorite will be dimmed. You will need to synchronize with your desktop computer again to download the page to your device, or connect to the Internet to view the page.

Saving memory on your terminal

Mobile favorites take up storage memory on your device.

To minimize the amount of memory used:

- In the settings for the Favorites information type in ActiveSync options, turn off pictures and sounds, or stop some mobile favorites from being downloaded to the device. For more information, see ActiveSync Help.
- Limit the number of downloaded linked pages. In Internet Explorer on the desktop computer, right-click the mobile favorite you want to change and then Properties. On the Download tab, specify 0 or 1 for the number of linked pages you want to download.

Using AvantGo Channels

AvantGo is a free interactive service that gives you access to personalized content and thousands of popular Web sites. You subscribe to AvantGo channels directly from your device. Then, you synchronize your device and desktop computer, or connect to the Internet to download the content. For more information, visit the AvantGo Web site.

To sign up for AvantGo:

- 1 In ActiveSync options on the desktop computer, turn on synchronization for the AvantGo information type.
- 2 In Pocket Internet Explorer on your device, tap the Favorites button to display your list of favorites
- 3 Tap the AvantGo Channels link.
- 4 Tap the Activate button.
- 5 Follow the directions on the screen. You will need to synchronize your device with your desktop computer and then tap the My Channels button to complete the AvantGo setup.

When synchronization is complete, tap the AvantGo Channels link in your list of favorites to see a few of the most popular channels. To add or remove channels, tap the Add or Remove link.

Chapter 11 - Companion Programs

Available companion programs

The companion programs for Pocket PC are

- Microsoft® Pocket Word and
- Microsoft® Pocket Excel.

Media Player, Microsoft ® Money, MSN Messenger, Microsoft Reader are NOT included on the Dolphin 9500/9550 but maybe installed from the Microsoft Companion CD.

Accessing companion programs

To switch to a companion program on your device, tap Start > Programs > then tap the program name.

Select the type of folder you

Pocket Word

Pocket Word works with Microsoft Word on your desktop computer to give you easy access to copies of your documents. You can create new documents on your device, or you can copy documents from your desktop computer to your device. Synchronize documents between your desktop computer and your device so that you have the most up-to-date content in both locations.

Use Pocket Word to create documents, such as letters, meeting minutes, and trip reports. To create a new file, tap Start> Programs>Pocket Word>New. A blank document appears. Or, if you've selected a template for new documents in the Options dialog box, that template appears with appropriate text and formatting already provided. You can open only one document at a time; when you open a second document, you'll be asked to save the first. You can save a document you create or edit in a variety of formats, including Word (.doc), Pocket Word (.psw), Rich Text Format (.rtf), and Plain Text (.txt).

Using Pocket Word

Pocket Word contains a list of the files stored on your device. Tap a file in the list to open it. To delete, make copies of, and send files, tap and hold a file in the list. Then, select the appropriate action on the pop-up menu.

	want displayed in the list.		
🎊 Pocket Word	d √ €	9:23 ጰ	
隌 All Folders 🕹		Name 👻	Tap to change the sort
🕅 Agenda	9:22 a	420b	order of the list.
🖲 Doc 1	9:22 a	416b	
Meeting note	s 9:22 a	428b	
Create Copy	9:23 a	424b ·	Tap to open a document.
Delete			
Select All			Tap and hold an item to see a pop-up menu of actions.
Send via E-ma	il		
Beam File			
Rename/Move	e		
New Tools			

Tap to create a new document.

You can enter information in Pocket Word in one of four modes (typing, writing, drawing, and recording), which are displayed on the **View** menu. Each mode has its own toolbar, which you can show and hide by tapping the **Show/Hide Toolbar** button on the command bar.

You can change the zoom magnification by tapping **View** and then **Zoom**. Then select the percentage you want. Select a higher percentage to enter text and a lower one to see more of your document.

If you're opening a Word document created on a desktop computer, select **Wrap to Window** on the **View** menu so that you can see the entire document.

Typing Mode

Using the input panel, enter typed text into the document. For more information on entering typed text, refer to Using the Dolphin 9500/9550 Mobile Computer.

To format existing text and to edit text, first select the text. You can select text as you do in a Word document, using your stylus instead of the mouse to drag through the text you want to select. You can search a document to find text by tapping Edit and then Find/Replace.

Tap and hold to see a d		Tap to return to the document list (changes are saved automatically).	
89 Pocket * Meeting not	Cut Cut Copy Paste Clear Format Paragraph	12:06	
	Recognize Alternates		Tap to change formatting options.
Fr B I 123 1 2 3 Tab Q W e CAP a s c Shift z x c Ctl áü \ \ New Edit Vie	1 f g h j k c v b n m ,	0 - = 4 0 p [1 ; ' . / ← ↓ ↑ ← ·	

Tap to show or hide the toolbar.

Writing Mode

In writing mode, use your stylus to write directly on the screen. Ruled lines are displayed as a guide, and the zoom magnification is greater than in typing mode to allow you to write more easily.

For more information on writing and selecting writing, see Using the Dolphin 9500/9550 Mobile Computer on page 4-1.

Writing on the Screen in Pocket Word

🔊 Pocket Word	∢ € 12:08	•	
Tur re A	n ;n port SAP! 		 With Space button selected, drag to insert space. An arrow appears showing the space direction and size.
	F _F BIU2		 Tap to highlight selected text.
New Edit View To Space	Tap to select formatt such as pen weight	ing optic and line	ons, color.

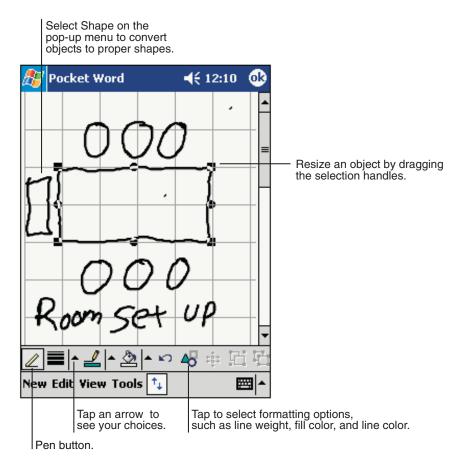
If you cross three ruled lines in a single stylus stroke, the writing becomes a drawing, and can be edited and manipulated as described in the following section.

Written words are converted to graphics (metafiles) when a Pocket Word document is converted to a Word document on your desktop computer.

Drawing Mode

In drawing mode, use your stylus to draw on the screen. Gridlines appear as a guide. When you lift your stylus off the screen after the first stroke, you'll see a drawing box indicating the boundaries of the drawing. Every subsequent stroke within or touching the drawing box becomes part of the drawing.

For more information on drawing and selecting drawings, see Using the Dolphin 9500/9550 Mobile Computer on page 4-1.



For more information on using Pocket Word, tap Start and then Help.

Pocket Excel

Pocket Excel works with Microsoft Excel on your desktop computer to give you easy access to copies of your workbooks. You can create new workbooks on your device, or you can copy workbooks from your desktop computer to your device. Synchronize workbooks between your desktop computer and your device so that you have the most up-to-date content in both locations.

Use Pocket Excel to create workbooks, such as expense reports and mileage logs. To create a new file, tap Start, Programs, Pocket Excel, and then New. A blank workbook appears. Or, if you've selected a template for new workbooks in the Options dialog box, that template appears with appropriate text and formatting already provided. You can open only one workbook at a time; when you open a second workbook, you'll be asked to save the first. You can save a workbook you create or edit in a variety of formats, including Pocket Excel (.pxl) and Excel (.xls).

Pocket Excel contains a list of the files stored on your device. Tap a file in the list to open it. To delete, make copies of, and send files, tap and hold a file in the list. Then select the appropriate action from the pop-up menu.

Pocket Excel provides fundamental spreadsheet tools, such as formulas, functions, sorting, and filtering. To display the toolbar, tap View and then Toolbar.

₿	Pocket Exc	el:	4 € 12:19	֎	
A3		=SUM((A1:A2)		Cell contents appear here
	Á	В	С		as you enter them.
1	\$44.00				
2	\$22.00			=	
3	\$66.00				
4					
5_				-	
L.				`	— AutoSum button.
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New	Edit View	Format To	ols 🚹 🗄	₩ ^	

If your workbook contains sensitive information, you can protect it with a password. To do so, open the workbook, tap **Edit**, and then **Password**. Every time you open the workbook, you will need to enter the password, so choose one that is easy for you to remember but hard for others to guess.

Tips for Working in Pocket Excel

When working in large worksheets in Pocket Excel:

- View in full-screen mode to see as much of your worksheet as possible. Tap View and then Full Screen. To exit full-screen mode, tap Restore.
- Show and hide window elements. Tap View and then tap the elements you want to show or hide.
- Freeze panes on a worksheet. First select the cell where you want to freeze panes. Tap View and then Freeze Panes. You
 might want to freeze the top and left-most panes in a worksheet to keep row and column labels visible as you scroll through
 a sheet.
- Split panes to view different areas of a large worksheet. Tap View and then Split. Then drag the split bar to where you want it. To remove the split, tap View and then Remove Split.
- Show and hide rows and columns. To hide a hidden row or column, select a cell in the row or column you want to hide. Then
 tap Format, then Row or Column, and then Hide. To show a hidden row or column, tap Tools, then Go To, and then type a
 reference that is in the hidden row or column. Then tap Format, then Row or Column, and then Unhide.

For more information on using Pocket Excel, tap Start and then Help.

Chapter 12 - Dolphin 9500/9550 HomeBase™

Overview

As the hub of your Dolphin 9500/9550 system, the Dolphin 9500/9550 HomeBase performs three important functions for your terminal – power, communications, and storage.

Power

The HomeBase provide power to the intelligent battery charging system incorporated into Dolphin terminals.

The charging/communication cradle also has an auxiliary battery well, located on the back of the cradle, allowing users to charge a spare battery.

Communications

Reliable data communications at speeds of up to 115k baud can be transmitted by the HomeBase through the RS-232 serial port. Using the full-speed USB port, data transmission rates of up to 12 Mbps are possible.

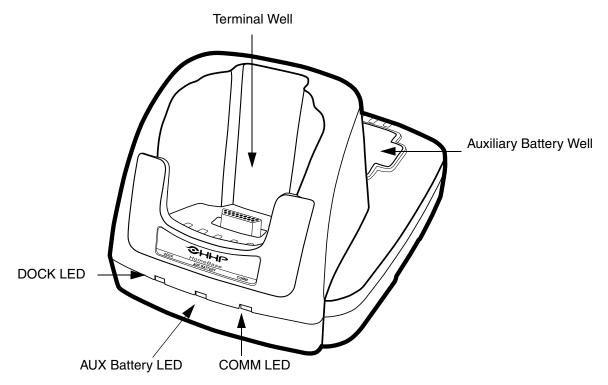
The HomeBase cannot be "daisy-chained" but can be networked together using a serial or USB hub.

Convenient Storage

Dolphin charging/communication peripherals provide a safe and convenient storage receptacle for your Dolphin terminal.

Dolphin 9500/9550 HomeBase Parts and Functions

Front Panel



Terminal Well

Place the Dolphin terminal in this well both to communicate with a host device. If the host device is a desktop computer that uses ActiveSync, synchronization begins immediately. While seated in the Terminal Well, the battery loaded in the back of the terminal charges.

Auxiliary Battery Well

See Rear Panel on page 12-4.

DOCK LED

Turns solid green when the Dolphin terminal is properly seated in the Dolphin HomeBase. When this light is on, the terminal is connected and the battery in the terminal is charging.

AUX BATT LED

Indicates status of the battery charging in the Auxiliary Battery Well.

This color	means
Orange	the auxiliary battery is charging.
Green	the auxiliary battery has completed charging and is ready for use.

COMM LED

This is the communication LED. It indicates the status of data transfer between the Dolphin terminal and the host device the HomeBase is connected to.

The color of the LEDs mean different things if the HomeBase is using the serial or USB port connection.

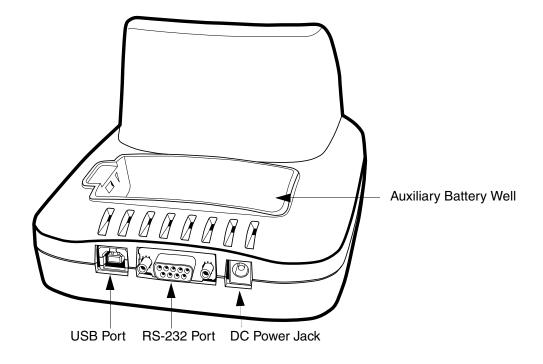
If using the serial port:

This color	means
Red	Serial data is being sent from the Host Device to the Dolphin HomeBase.
Green	Serial data is being sent from the Dolphin HomeBase to the Host Device.
Orange	Serial data is being sent at high data rates.

If using the USB Port:

This color	means
Green LED	A USB Connection is established with the host computer.

Rear Panel



Auxiliary Battery Well

The HomeBase enables you to charge an additional battery in this well. It charges that battery whether a terminal is seated in the Terminal Well or not. This feature ensures that you can always have a fully-charged battery for your Dolphin terminal. See Using the Auxiliary Battery Well on page 12-5..

USB Port

This USB Port is full-speed and 1.1 compliant. Using a USB cable, you can connect the HomeBase to a peripheral device such as a desktop computer or printer. When the Dolphin 9500/9550 is seated in the Terminal Well, it is connected to the peripheral device via the HomeBase.

RS-232 Communications Port

Use a standard serial cable to connect this port to a host RS-232 device.

Power supply connector

Use this connector to attach a power supply to the HomeBase. The power supply provides 9.5V DC input for communications and battery charging.

Using the Auxiliary Battery Well

The auxiliary battery well located on the back of the HomeBase allows users to charge a spare battery. Charging a Dolphin terminal and a spare battery pack can be done simultaneously because the charging slot in the Auxiliary Battery Well operates independently of the battery installed in the terminal.

The HomeBase senses when a battery pack is fully charged and automatically switches to maintain the battery at full capacity indefinitely.

To charge a spare battery in the auxiliary well, complete these steps:

- 1 Insert the end of the battery without the locking tab into the bottom of the auxiliary well opening.
- 2 Snap the battery into place with a hinging motion.
- 3 Once the battery is inserted, you can use the AUX BATTERY LED to monitor the charging progress.

Powering the Dolphin Terminal

The HomeBase charging/communication cradle powers the terminal while charging the battery installed in the terminal. It contains an intelligent battery charging system that protects the battery from being damaged by overcharging. Therefore, Dolphin terminals may be stored indefinitely in the charging/communication cradles without damage to the terminals, battery packs, or peripherals.

To charge a Dolphin terminal, complete these steps:

- 1 Insert a battery pack into the Dolphin terminal.
- 2 Place the terminal, imager window up and the LCD visible, in the terminal well of the cradle.
- 3 Let it glide down into the well until it stops.
- 4 When the Dolphin terminal is properly seated, the DOCK LED on the front of the cradle will be solid green.
- 5 The terminal is powered and the (if needed) the battery in it begins charging.

Setting up communications

Set the Dolphin HomeBase on a dry, stable surface, such as a desktop near an electrical outlet. Be sure to provide enough workspace with good lighting for the user to view and operate the Dolphin terminal while it is in the HomeBase.

Communications types

RS-232

The HomeBase supports RS-232 communications through the RS-232 Communications Port located on the back of the device. The HomeBase interfaces the RS-232 signals from the host computer to the RS-232 signals of the Dolphin 9500/9550 mobile computer.

The HomeBase's RS-232 interface allows the Dolphin terminal to communicate to a personal computer, modem, or any RS-232 device using a standard serial cable and communications software.

USB

The HomeBase also supports USB communications through the USB port located on the back. The HomeBase acts as a USB device, and interfaces the USB signals of the Dolphin 9500/9550 to the USB of the host computer. Using a standard USB cable, the HomeBase's USB interface allows the Dolphin terminal to communicate with a personal computer or to be networked through a USB hub.

Note: The HomeBase should have only one type of interface cable connected at a time, either USB or RS-232.

Equipment requirements

To install and use the HomeBase, you need the following equipment:

- HomeBase connected to the appropriate power supply
- For RS-232 communications, a Serial cable
- For USB communications, a USB cable

Installing the HomeBase for RS-232 communications

Connecting the Cables

Connect the HomeBase to the host computer or other device by plugging an RS-232 serial cable into the RS-232 Communications Port on the rear of the HomeBase. The wiring of your cable depends on whether the other device is set up as a Data Communications Equipment (DCE) or Data Terminal Equipment (DTE) device.

The HomeBase Communication Port is configured as a DCE device. To communicate with a DCE device, use either a null modem adapter in line with a standard RS-232 cable, or a null-modem serial cable. To communicate with a DTE device such as a computer, use a standard (or straight-through) RS-232 cable.

You can make your own cables by following the pin configuration in the chart below. To do so, you must determine if your host RS-232 device is 9-pin or 25-pin, and whether it is configured as a DCE or DTE device.

HomeBase /Host Port (DCE)	IBM AT DB9 (DTE)	IBM XT DB25 (DTE)	Modem DB25 (DCE)
Pin / Input Signal			
2 / (RD)	2	3	2
3 / (TD)	3	2	3
5 / (SG)	5	7	7
4 / (DTR)	4	20	6
6 / (DSR)	6	6	20
7 / (RTS)	7	4	5
8 / (CTS)	8	5	4

Note: The HomeBase **cannot** be daisy-chained.

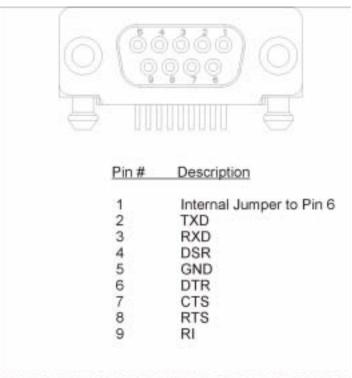
Powering the HomeBase

- 1 Connect the power supply to the charging/communication cradle.
- 2 Plug the AC transformer into the Dolphin HomeBase 9.5 Volt DC power supply connector. The AC wall transformer provided can power only one HomeBase.

HHP recommends that you leave the Dolphin HomeBase connected to its power source at all times, so that it is always ready to use.

HomeBase Serial Connector

The following diagram displays the serial connector of the HomeBase.



NOTE: SIGNALS REFERENCED FOR A DTE DEVICE

The Home Base is at a right-angle to the printed circuit board (PCB). The ninth pin has a ring indicator (RI).

Configuring for RS-232 communication

Setting up the terminal

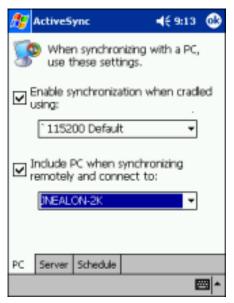
The Dolphin terminal may be configured for communications using the ActiveSync options as described in Chapter 2 or manually as described below.

To set Communications Properties, complete these steps:

1 Select Start > ActiveSync > Tools > Options.

2 Select the PC tab.

3 Check the **Enable synchronization** box and select the desired option from the pull-down list; 115200 Default is recommended for an RS-232 connection.



4 Click OK.

5 Place the Dolphin in the cradle. The Dolphin 9500/9550 attempts to start an ActiveSync connection with the desktop computer automatically.

Setting up the Desktop Computer

ActiveSync must be installed and configured for RS-232 on the desktop computer to sync successfully with a Dolphin 9500/9550 device that is configured for RS-232 communication.

The following graphic displays the correct ActiveSync Connection Settings on the desktop computer for an RS-232 connection.

Connection Settings
Click Get Connected to connect your mobile device to this computer.
Statux: Waiting for device to connectGet Connected
Allow setial cable or infrared connection to this CDM port
COM1 💌
Status: COM port is available
Allow USB connection with this desktop computer.
Status: USB is available
Allow network (Ethernet) and Remote Access Service (RAS) server connection with this desktop computer.
Status: Network is available
Status icon
Show status icon in Taskbar.
OK. Cancel Help

Note: You *can* have the USB connection box checked in addition to the serial cable box without affecting processing. However, you would most likely use one or the other.

Installing the HomeBase for USB communication

Required equipment:

- HomeBase with power supply
- USB Cable
- ActiveSync version 3.7 or above

• Windows® 98 second edition*, Windows® Me, Windows® 2000, or Windows® XP computer.

Note: The HomeBase does not support Windows NT® when using a USB connection. This is because Windows NT does not support USB.

*Windows® 98 second edition provides full USB support.

To install the HomeBase using USB

Complete these steps:

- 1 Plug in the power supply and connect it to the back of the HomeBase.
- 2 Plug the USB cable into the back of the HomeBase.
- **3** Plug the other end of the USB cable into your PC. The Found New Hardware Wizard opens.

Where do you want windows to search	its: diver Hes?
Search for driver files to the following he	ednare device.
DAAUSB Bridge	
any of the following optional search local	e searching on a floppy disk or CD-ROM drive.
Optional search lecatores F Roppy dist, driver F CD-ROM driver F Specify a location	

- 4 Check the CD-ROM drives check box and insert the driver CD provided into the CD tray on your desktop computer.
- 5 Select the wceusbsh.inf file.

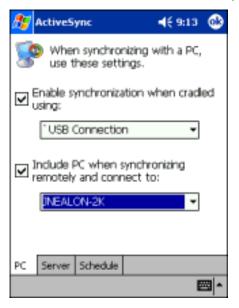
At this point, the hardware is installed and operating. You may need to reset your PC to complete the installation process. You may also need to remove and then re-insert the Dolphin 9500/9550 in the HomeBase to initiate a USB connection. You can verify that the USB driver is functioning by watching the COMM LED on the USB home base. It should be solid green.

Setting up the Terminal

To select ActiveSync options:

- 1 Select Start > ActiveSync > Tools >Options.
- 2 Select the PC tab.

3 Check the Enable synchronization box and select 'USB Connection from the drop-down list.



4 Click OK.

5 Place the Dolphin in the cradle. The Dolphin 9500/9550 attempts to start an ActiveSync connection with the desktop computer automatically.

Setting up the Desktop Computer

After the USB HomeBase is installed, you can use ActiveSync to connect to a Dolphin 9500/9550. These instructions assume that ActiveSync v3.1 is installed on your PC. The latest version of ActiveSync can be downloaded from www.microsoft.com.

The ActiveSync Connection Settings must be set as the following graphic indicates.

Click Get Connected to connect your mic computer.	ble device to this
Status: Waiting for device to connect	Get Connected
Allow senial cable or infrared connection to thi	: COM port
COMI	
Statue: COM port is available	
Allow USB connection with this desktop com Status: USB is available	puter
Allow network (Ethernet) and Remote Access server connection with this desktop computer	
Statum Network is available	
Status icon	

The Allow USB connection with this desktop computer box must be checked. Do not check the serial cable box.

Communicating with the Dolphin 9500/9550 Terminal

To initiate communications between the Dolphin 9500/9550 and its peripheral, complete these steps:

1 Insert the Dolphin into the terminal well of the HomeBase. The DOCK LED on the cradle illuminates. If the Dolphin is in sleep mode, it will awaken into active state.

If the Dolphin does not turn on, or the LED does not light up, make sure that it is properly seated in the terminal well and that the power supply is properly connected to the cradle and plugged into a functioning AC outlet.

2 The Dolphin 9500/9550 terminal automatically opens ActiveSync to establish a connection. Data can then be transferred between the terminal and the peripheral it is connected to via the Home Base.

If communication does not occur, check the port connections to ensure that the cradle is correctly configured.

COMM LED

When data transfer begins, the COMM LED on the cradle blinks red and green for an RS-232 connection or solid green for a USB connection.

Mounting the HomeBase

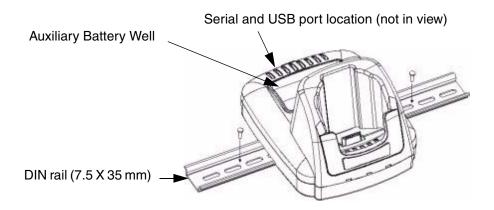
For convenience and storage, the HomeBase can be mounted on a flat, horizontal surface such as a desk or a flat, vertical surface such as a wall.

When choosing a location, always bear in mind that

- the mounting location must allow users easy access to the Auxiliary Battery Well, and
- the serial and USB ports face straight out of the rear panel see Rear Panel on page 12-4. and you will most likely want easy access to them in the future.

Desk Mounting

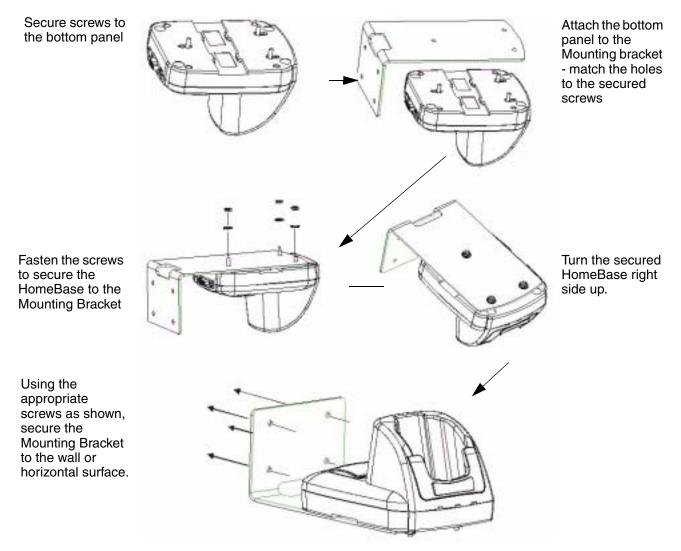
Dolphin charging/communication cradles have a DIN rail (7.5 X 35 mm) slot on the bottom to allow for secure desk attachment of the unit if desired.



To mount the HomeBase, you slide the DIN rail slot along the bottom panel and secure it. Then, using the appropriate nuts and bolts, secure the DIN rail to the desk or flat surface.

Wall Mounting

The following diagram displays how to wall-mount a Homebase.



Note: The back wedge of the Mounting Bracket contains an open slot for the power and communications cables. It is also designed with extra space between the slot and the back panel of the HomeBase to allow easy access to the power and communications ports. For more details on both ports, see Rear Panel on page 12-4.

Chapter 13 - Dolphin QuadCharger

Overview

The Dolphin® QuadCharger provides intelligent battery management for Lithium Ion (Li-Ion) Dolphin 9500/9550 battery packs.

Capacity

This device contains four individual slots that each hold and charge one battery. It can fully charge up to four Li-Ion batteries in four hours. Charging slots work independently to control the charging of individual battery packs.

Compatibility

The QuadCharger is compatible with the batteries for all models in the Dolphin 9500/9550 family of hand-held computing devices.

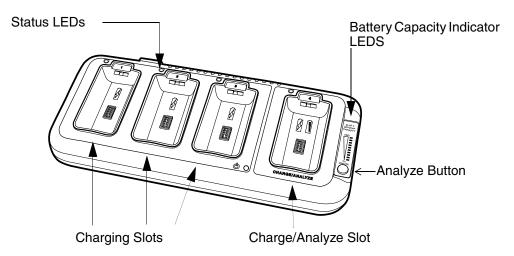
CAUTION! Do not attempt to recharge any battery pack in the Dolphin 9500/9550 QuadCharger that is not manufactured by HHP specifically for this device. To do so will void your warranty and could damage the Dolphin 9500/9550 QuadCharger.

Charging process

As battery packs charge, the charging circuitry follows the two-step charging process (CC-CV) that is recommended for Li-lon batteries. The process monitors changes in temperature, current, and voltage. The charger also resets and calibrates battery pack data to accurately show battery status on the Dolphin display.

Dolphin QuadCharger Parts and Functions

Front View



Charging Slots

The QuadCharger contains four charging slots. Each holds one Dolphin 9500/9550 battery. When a battery is placed in each slot it immediately begins charging.

Charge/Analyze Slot

This slot can be used to charge or analyze a battery. When a battery is placed in this slot, it begins charging just as it does in the other three slots. However, if you press the Analyze button, it runs the battery in the slot through the complete Analyze cycle. This is the only slot capable of analyzing a battery.

Battery Capacity Indicator LEDS

Indicates the progress of the Analyze cycle of the battery in the Charge/Analyze slot.

Analyze Button

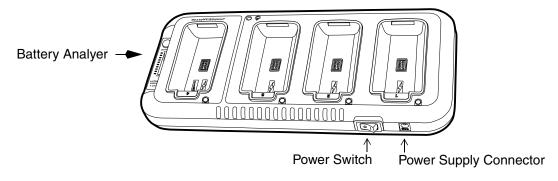
Press the Analyzer Switch to start a battery analyze cycle. Only the battery placed in the Charge/Analyze slot goes through the Analyze cycle. For more information, see Using the Battery Analyzer on page 13-7.

Status LEDs

A Status LED is located above each of the four battery pockets. The color of the LED indicates the charge status of the batteries in its slot.

Status LED color	This color indicates that the battery in the slot
Green	Has completed its charge cycle and is ready for use
Orange	Is being charged at a maximum charge rate
Red	Encountered and error during the most recent charge cycle

Rear View



Battery Analyzer

This is Charge/Analyze slot from the rear view.

Power Switch

Press the toggle switch to turn the QuadCharger on and off.

Power Supply Connector

Use this connector to attach the power supply to the QuadCharger. The universal power supply accepts input voltages between 90-265 volts.

Mounting the QuadCharger

The Dolphin QuadCharger should be on a dry, stable surface. To easily adapt the QuadCharger to your environment, it can be mounted on a flat, horizontal surface such as a desk or a flat, vertical surface such as a wall.

When choosing a location, always bear in mind that

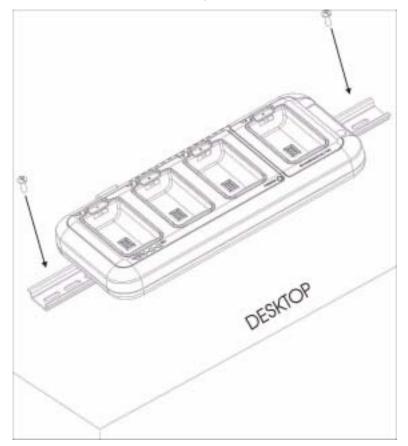
- the mounting location must allow users easy access to power switch and power connector
- the QuadCharger should be oriented so that users can easily read the labels, especially for the Battery Analyzer.

Mounting with the DIN rail

All Dolphin charging/communication cradles have a DIN rail (7.5 X 35 mm) slot on the bottom panel to enable secure mounting. To mount the QuadCharger, you slide the DIN rail slot along the bottom panel and secure it. Then, using the appropriate nuts and bolts, secure the DIN rail to the desk or wall.

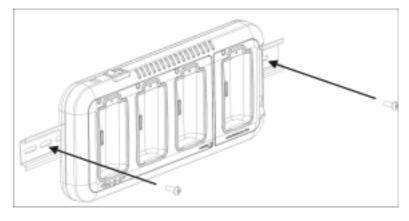
Desk Mounting

The following graphic displays how to desk-mount a QuadCharger.



Wall Mounting

The following graphic displays how to wall-mount a QuadCharger.



Supplying power to the QuadCharger

The charger must be connected to a power source for any type of operation.

CAUTION! Using a non-HHP power cord voids your warranty and could result in serious damage to the Dolphin QuadCharger's circuitry.

Complete these steps:

- 1 Locate the AC power cord that came with the Dolphin QuadCharger.
- 2 Plug the cord into the power supply connector on the back of the unit and then plug the power cord into a wall socket.
- **3** Press the power switch. The Green power LED illuminates and the charger performs a self-diagnostic test that lasts approximately five seconds.

Inserting and removing battery packs

Inserting

To insert a battery pack, place the end of the battery without the locking tab into the bottom of the charging pocket and snap the battery into place with a hinging motion. The Status LED for that particular slot illuminates orange when the battery has been properly inserted.

Removing

To remove a battery pack, push the locking tab down and pull the battery out from the charging slot with a hinging motion.

Storing Batteries

Recommendations

To maintain top performance from batteries, follow these storage guidelines:

- Avoid storing batteries outside of the specified temperature range of -4 to 104° F (-20 to 40°C) or in extremely high humidity.
- For prolonged storage, do not keep batteries stored in a charger that is connected to a power source.

Charging batteries in the QuadCharger

CAUTION! Do not attempt to recharge any battery pack in the Dolphin 9500/9550 QuadCharger that is not manufactured by HHP specifically for this device. To do so will void your warranty and could damage the Dolphin 9500/9550 QuadCharger.

Recommendation

For best results, battery packs should be at room temperature before recharging them; temperature has a marked effect on charging. The recommended temperature range is 50° to 95° F (10° to 35°C).

Complete these steps:

- 1 Set up the QuadCharger.
- 2 Supply the QuadCharger with power.
- 3 Insert batteries into the appropriate slots. The Status LED for each slot turns orange to indicate that the battery has begun a charge cycle.
- **4** When the Status LED turns green, the battery in the slot has completed charging.

Using the Battery Analyzer

Location

The fourth slot of the QuadCharger is known as the Charge/Analyze slot because it contains a battery analyzer. When a battery is placed in this slot and the Analyze button is pressed, it runs the battery through the Analyze cycle.

Note: The fourth slot is the only one that contains an analyzer.

Analyze cycle

The Analyze cycle is initiated when a battery is placed in the Charge/Analyze slot and the Analyze button is pressed. At that time, only the battery in the Charge/Analyze slot is analyzed.

In an Analyze cycle, batteries are completely discharged and then recharged to capacity. The indicator LEDs display just what that capacity is at the end of the cycle. The battery is completely reset and recalibrated. Resetting and calibrating batteries on a regular basis can provide longer and more consistent performance from those batteries.

The length of time it takes for a battery to run through the complete Analyze cycle varies depends on initial state of the battery. Minimum time is 8 hours, maximum time is 12 hours.

Battery Capacity Indicator LEDs

The Battery Capacity Indicator LEDs are located along the right side of the Charge/Analyze slot. These LEDs illuminate after the completion of the Analyze cycle. Upon the completion of the final charge, these LEDs display the measured capacity of the battery. Battery capacity is displayed as a percentage of measured capacity/rated capacity. Each LED equates to 10%.

Status LED

The Charge/Analyze slot also contains a Status LED in the upper, left corner of the slot. When this slot is used for regular charging, this LED operates in the usual manner; see Status LEDs on page 13-2.

When this slot is being used to analyze a battery, the Status LED functions as the following table describes:

Status LED color	This color indicates that the battery in the slot
Solid Green	Has completed the Analyze cycle.
Flashing Orange	Is being analyzed.
Solid Red	Encountered an error during the Analyze cycle.

To analyze a battery

Complete these steps:

- 1 Insert it into the Charge/Analyze slot (the fourth).
- 2 Press the Analyze button. The Status LED flashes orange to indicate that the analyzing cycle has begun.
- 3 Upon completion, the Status LED is solid green and the Battery Capacity Indicator LEDs display the current battery capacity.
- **CAUTION!** Because the Dolphin QuadCharger is accumulating battery pack information during the entire Analyze cycle, it is important not to remove the battery until the cycle has been completed.

Troubleshooting

If you encounter problems with your Dolphin QuadCharger, refer to chart below for possible solutions. If problems persist, please contact HHP Technical Support.

Problem	Issue
The "CHARGING" LED does not come on when I insert a battery pack into the Dolphin QuadCharger	Check the power connections on the Dolphin QuadCharger; make sure the POWER switch is ON and the battery pack is properly seated.
The red status LED comes on during charging.	Try to charge the battery in one of the other charging pockets. If the red Status LED comes on again, then the problem is associated with the battery pack. If the red status stays with the charging pocket, the problem is associated with the charging circuity.
The red status LED remains on without a battery in the charging pocket.	An error occurred during the self-diagnostic test for that particular charging pocket. Call HHP Product Service and request an RMA.
	See Warranty, Support, and Service on page 15-1. for additional warranty and return information.

Chapter 14 - Dolphin Mobile Base

Overview

As the hub of your Dolphin 9500/9550 mobile data collection system, the Dolphin 9500/9550 Mobile Base charging/ communication cradle is ideal for use with both in-premise warehouse and in-transit data collection applications. The Mobile Base performs three important functions: 1) charging, 2) communications, and 3) storage.

Charging

The Mobile Base provides power to the Dolphin terminal which enables the terminal to charge its battery.

Communications

The Mobile Base can transmit reliable data communications at speeds of up to 115K baud through its RS-232 serial port.

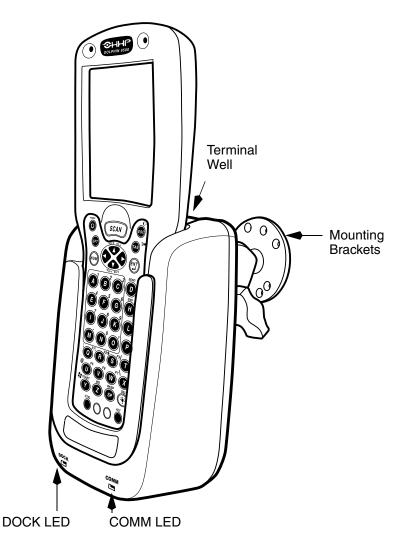
Convenient Storage

The Mobile Base is a safe and convenient storage receptacle for the Dolphin 9500/9550 terminal.

Mobile Base parts and functions

Front Panel

The front panel of the Mobile Base has one slot. The following graphic features the Mobile Base with the Dolphin 9550 inserted into the Terminal Well.

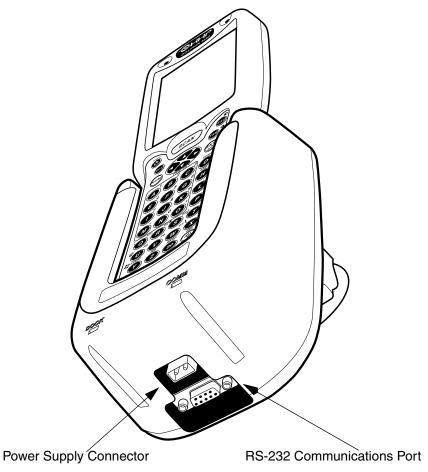


Terminal Well	Place the Dolphin 9500/9550 in this well to communicate with a host device and to charge the mobile computer's battery.
Mounting Brackets	Use these to mount the Mobile Base to a fixed location.
DOCK LED	Turns solid green when the Dolphin Terminal is properly seated into the Dolphin Mobile Base.
COMM LED	Indicates the status of data transfer between the Host Device and the Dolphin Terminal

COMM LED color	Indicates that	
Red	Data is being sent from the Host Device to the Dolphin Mobile Base.	
Green	Data is being sent from the Dolphin Mobile Base to the Host Device.	
Orange	Data is being sent at high data rates.	

Bottom Panel

The power supply and RS-232 connectors are located on the bottom of the unit.



Power Supply Connector

Use this connector to attach a power supply to the Mobile Base. The power supply provides power for communications and battery charging. The Dolphin 9500/9550 Mobile Base can be powered from an external DC power source of between 11 Vdc to 48 Vdc.

The optional HHP cigarette lighter adapter cable allows the Mobile Base to be powered from a standard 12 Vdc cigarette lighter outlet in a vehicle.

The Mobile Base can also be powered using the supplied pigtail power cable by "hard wiring" into the vehicle power bus.

CAUTION! Always be sure the power source is within the specified range and observe correct input voltage polarity.

RS-232 Communications Port

Use a standard serial cable to connect this port to a host RS-232 device. See Mobile Base Serial Connector on page 14-7. for details.

Powering the Dolphin Terminal

When seated in the Mobile Base, the Dolphin terminal receives the power to charge its battery and run its internal circuitry.

The Dolphin terminal can be stored indefinitely in the Mobile Base without damage to the terminal or the Mobile Base. Keep the Mobile Base plugged into the power source so that the Dolphin terminal battery pack stays fully charged.

Charging a Dolphin Terminal

The Mobile Base supplies charging power to the Dolphin terminal so that the terminal can monitor the charging of its battery pack. This charging method protects the battery from being damaged by overcharging. Therefore, the Dolphin terminal may be stored indefinitely in the Mobile Base without damage to the terminal, the battery pack, or the Mobile Base.

To charge a Dolphin terminal, complete these steps:

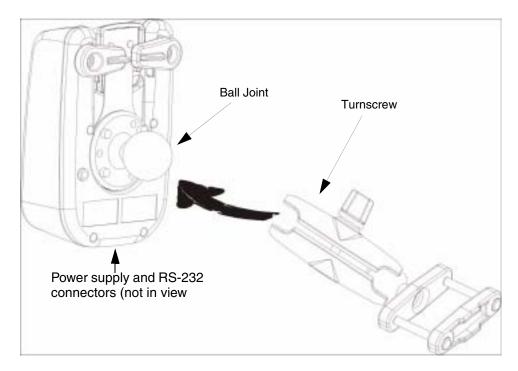
- 1 Insert a battery pack into the Dolphin terminal.
- 2 Place the terminal, imager window up and the LCD visible, in the Terminal Well of the Mobile Base.
- 3 Let it glide down into the well until it stops.
- 4 When the Dolphin terminal is properly seated, the DOCK LED on the Mobile Base turns solid Green. The terminal begins charging automatically.

Installing the Dolphin Mobile Base

To install the Dolphin Mobile Base, you need to mount it securely to an appropriate location and supply it with power.

Mounting the Mobile Base

The adjustable mounting bracket holds the terminal securely in place and gives the user a variety of options for mounting the Mobile Base. When selecting a location, keep in mind that the power supply and serial connectors point straight out the bottom of the Mobile Base.



Complete these steps:

- 1 Loosen the Turnscrew located on the side of the bracket.
- 2 Attach the bracket to the Ball Joint on the back of the Mobile Base.
- 3 Tighten the Turnscrew.

Powering to the Dolphin Mobile Base

Note: HHP recommends that you leave the Mobile Base connected to its power source at all times.

The Mobile Base is powered via the power connector on the bottom panel; see Bottom Panel on page 14-3. Both the power and serial connectors are straight out, not at an angle.

The Mobile Base must be powered by a 12 to 48 volt DC source.

Setting up for Communications with the Mobile Base

The Mobile Base RS-232 interface allows the Dolphin terminal to communicate to a personal computer, modem, or any standard RS-232 device using a standard serial cable and communications software.

Connecting the Cables

Connect the Mobile Base to the host computer or other device by plugging an RS-232 serial cable into the RS-232 Communications Port on the bottom of the Mobile Base. Plug the other end of the RS-232 serial cable into the correct port on the host RS-232 device.

The wiring of your cable depends on whether the other device is set up as a Data Communications Equipment (DCE) or Data Terminal Equipment (DTE) device.

The Mobile Base Communication Port is configured as a DCE device. To communicate with a DTE device such as a computer, use a standard (or straight-through) RS-232 cable. To communicate with a DCE device, use either a null modem adapter in line with a standard RS-232 cable, or a null-modem serial cable.

RS-232 Pin Configuration

Mobile Base /Host Port (DCE)	IBM AT DB9 (DTE)	IBM XT DB25 (DTE)	Modem DB25 (DCE)
Pin / Input Signal			
2 / (RD)	2	3	2
3 / (TD)	3	2	3
5 / (SG)	5	7	7
4 / (DTR)	4	20	6
6 / (DSR)	6	6	20
7 / (RTS)	7	4	5
8 / (CTS)	8	5	4

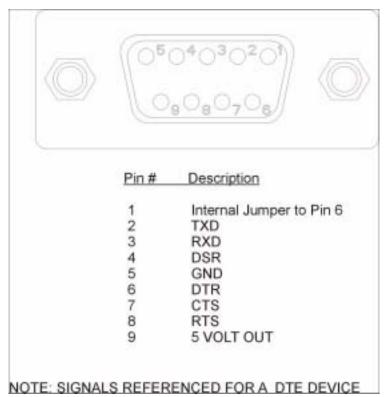
Refer to this table if you want to make your own cables. To do so, you must determine if your host RS-232 device is

• configured as a DCE or DTE device.

^{• 9-}pin or 25-pin and

Mobile Base Serial Connector

The following diagram displays the serial connector of the Mobile Base.



The Mobile Base connector is straight to the printed circuit board (PCB). The ninth pin sends 500mA at 5V power out. This can power a peripheral device such as a mobile printer provided that that peripheral device can accept 500mA at 5V.

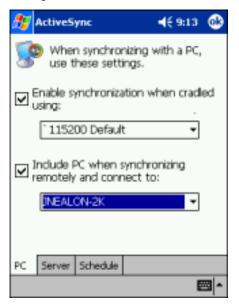
Configuring the Dolphin Terminal

Communications Properties must be configured appropriately on the Dolphin 9500/9550 terminal for it to communicate with the Mobile Base.

To set Communications Properties:

- 1 Click Start > ActiveSync > Tools > Options.
- 2 Click the PC Connection tab
- 3 Check the Enable Synchronization check box.

4 Select the appropriate baud rate for connecting to the RS-232 Host Device; 11520 is the default.



- 5 Click OK and close the ActiveSync window on the Dolphin 9500/9550.
- 6 Place the Dolphin in the Mobile Base. Sychronizations begins immediately.

Chapter 15 - Warranty, Support, and Service

Limited Warranty

Hand Held Products, Inc., d/b/a HHP ("HHP") warrants its products to be free from defects in materials and workmanship and to conform to HHP's published specifications applicable to the products purchased at the time of shipment. This warranty does not cover any HHP product which is (i) improperly installed or used; (ii) damaged by accident or negligence, including failure to follow the proper maintenance, service, and cleaning schedule; or (iii) damaged as a result of (A) modification or alteration by the purchaser or other party, (B) excessive voltage or current supplied to or drawn from the interface connections, (C) static electricity or electro-static discharge, (D) operation under conditions beyond the specified operating parameters, or (E) repair or service of the product by anyone other than HHP or its authorized representatives.

This warranty shall extend from the time of shipment for the duration published by HHP for the product at the time of purchase ("Warranty Period"). Any defective product must be returned (at purchaser's expense) during the Warranty Period to HHP's factory or authorized service center for inspection. No product will be accepted by HHP without a Return Materials Authorization, which may be obtained by contacting HHP. In the event that the product is returned to HHP or its authorized service center within the Warranty Period and HHP determines to its satisfaction that the product is defective due to defects in materials or workmanship, HHP, at its sole option, will either repair or replace the product without charge, except for return shipping to HHP.

EXCEPT AS MAY BE OTHERWISE PROVIDED BY APPLICABLE LAW, THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER COVENANTS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, ORAL OR WRITTEN, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

HHP'S RESPONSIBILITY AND PURCHASER'S EXCLUSIVE REMEDY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE DEFECTIVE PRODUCT. IN NO EVENT SHALL HHP BE LIABLE FOR INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, AND, IN NO EVENT, SHALL ANY LIABILITY OF HHP ARISING IN CONNECTION WITH ANY PRODUCT SOLD HEREUNDER (WHETHER SUCH LIABILITY ARISES FROM A CLAIM BASED ON CONTRACT, WARRANTY, TORT, OR OTHERWISE) EXCEED THE ACTUAL AMOUNT PAID TO HHP FOR THE PRODUCT. THESE LIMITATIONS ON LIABILITY SHALL REMAIN IN FULL FORCE AND EFFECT EVEN WHEN HHP MAY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH INJURIES, LOSSES, OR DAMAGES. SOME STATES, PROVINCES, OR COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

All provisions of this Limited Warranty are separate and severable, which means that if any provision is held invalid and unenforceable, such determination shall not affect the validity of enforceability of the other provisions hereof.

The limited duration of the warranty for the Dolphin 9500 and Dolphin 9550 terminals is as described below:

- Terminals with an integrated imager are covered by a two-year limited warranty.
- The limited duration of the warranty for the Dolphin HomeBase, Mobile Base, Mobile Charger, and QuadCharger is for one year.
- The limited duration of the warranty for batteries is one year. The battery life will be greatly increased when following the
 specific battery instructions in the user guide. Batteries returned to HHP in this reduced state may or may not be replaced
 under this warranty.
- Use only power adapters approved for use by HHP. Failure to do so may result in improper operation or damage to the unit and will void the warranty.
- · Touchscreens are covered only by a one-year limited warranty.

Hand Held Products, Inc. extends these warranties only to the first end-users of the products. These warranties are non-transferable.

How to Extend Your Warranty

HHP offers a variety of service plans on our hardware products. These agreements offer continued coverage for your equipment after the initial warranty expires. For more information, contact your HHP sales representative, customer account representative or the Product Service Marketing Manager or your Authorized Reseller.

How Problems Should be Handled

Should the Dolphin terminal or any of the peripherals prove to be defective within the stated warranty period from the of date of purchase, return the product, as described in the RMA procedures below, and we will, at our option, repair or replace the product, to whatever extent HHP deems necessary to restore the product to proper operating condition, without any charge to you.

Application Support

If you have a question or problem with your Dolphin terminal or Dolphin peripheral, you can get technical assistance from HHP's Application Support department.

Return Information

If you purchased the product from an Authorized HHP Reseller, contact the Reseller with the unit's serial number. Your Reseller will contact HHP, on your behalf, to arrange for the unit to be serviced.

Calling

If you purchased the product directly from HHP, or have been instructed by your Reseller to contact HHP directly, call the Customer Services Department in your area to request a Repair Maintenance Authorization (RMA) number.

Requirements

When calling for service at any of our repair facilities, please be prepared to give the following information:

- Product's type and serial number
- Brief description of problem
- Oated Proof-of-Purchase

If your equipment is still covered under the initial end-user's product warranty, please notify the Product Services Representative when you call.

North America

HHP Corporate Offices Telephone: (800) 782-4263, option 3 Fax: (704) 566-6015 E-mail: ProductService@hhp.com

Europe, Middle East, and Africa (EMEA)

HHP Europe Telephone:+ 31 (0) 40 29 01 633 Fax: + 31 (0) 40 2901631 E-mail: EuroService@hhp.com

Latin America

Brazil

HHP Brazil

HHP Latin America Telephone: +1 239-263-7600 Fax: +1 239-263-9689 E-mail: LASupport@hhp.com

Telephone: +55 (21) 2494-7060

E-mail: suporte@hhp.com.br

Fax: +55 (21) 2494-5033

Asia Pacific

HHP Asia/Pacific Telephone: +852-2511-3050 Fax: +852-2511-3557 E-mail: chuie@hhp.com

Note: Do not ship repairs to the Latin American location.

Shipping

CAUTION! You **must** have an RMA number to receive service from any of HHP's repair facilities. Failure to obtain an RMA number before shipping your product to this repair facility can delay the processing of your repair request.

Place the product in its original packaging with a copy of your original invoice (this helps avoid possible service delays) and ship the product prepaid to the appropriate address below. For your protection, we recommend you insure any equipment being sent to HHP.

Write the RMA number on the mailing label under the address.

North and South America: HHP Products Services Department 7510 East Independence Blvd., #100 Charlotte, NC 28227-9411	Latin America HHP Latin America Telephone: +1 239-263-7600 Fax: +1 239-263-9689 E-mail: LASupport@hhp.com Do not ship to this location.	Asia/Pacific RM1104 Emperor Group Centre 288 Hennessey Road Wanchai Hong Kong - People's Republic of China
The United Kingdom:	HHP Brazil	Japan Office
+ 0800-783-9718		Bon Marusan 8F 3-5-1 Kanda-Jinbocho
Do not ship to this location.		Chiyoda-ku Tokyo 101, Japan
Europe, Middle East and Africa:		

HHP EMEA Nijverheidsweg 9 Eindhoven, 5627 BT The Netherlands

Note: Please make note of the RMA number (if required) before shipping and the product's serial number for future reference.

Repair

After repair or replacement of the equipment, HHP will ship the product, at our cost, to your location. Non-warranty repairs will be returned, at the customer's expense, unless otherwise requested. Units currently under a service agreement will be shipped per the service agreement.

Appendix - A

Overview

A

This appendix provides useful tools for programming and managing your Dolphin 9500/9550 terminal.

General Windows Keyboard Shortcuts

Use the keyboard shortcuts in the chart below to navigate the Dolphin 9500 and Dolphin 9550 terminal keyboards. These are standard keyboard shortcuts for WIndows applications.

Press these keys,	То
CTRL + C	Сору
CTRL + X	Cut
CTRL + V	Paste
CTRL + Z	Undo
DELETE	Delete
CTRL + RIGHT ARROW	Move the insertion point to the beginning of the next word.
CTRL + LEFT ARROW	Move the insertion point to the beginning of the previous word.
CTRL + DOWN ARROW	Move the insertion point to the beginning of the next paragraph.
CTRL + UP ARROW	Move the insertion point to the beginning of the previous paragraph.
SHIFT with any of the arrow keys	Select more than one item in a window or on the desktop, or select text within a document.
CTRL+A	Select all.
ALT+ENTER	View properties for the selected item.
ALT+TAB	Switch between open items.
ALT+ESC	Cycle through items in the order they were opened.
ALT + Tap on Touch screen	Right click
CTRL+ESC	Display the Start menu.
ALT+Underlined letter in a menu name	Display the corresponding menu.
Underlined letter in a command name on an open menu	Carry out the corresponding command.
BACKSPACE	View the folder one level up in My Computer or Windows Explorer.
ESC	Cancel the current task.

Using the Cursor Keys

Use the cursor keys to navigate around on an application screen. The use of these keys can vary depending on the application.

Press	То
	Move the cursor up one row or line.
	Move the cursor down one row or line.
¢	Move the cursor one character to the right.
•	Move the cursor one character to the left.

Using the Modifier Keys

All three versions of the Dolphin 9500/9550 keyboard feature the standard PC keyboard modifier keys, **Alt**, **Ctrl** and **Shift**. There are two additional modifier keys located on the bottom row of the keyboard: one blue and one red.

For single-handed operation, the **Shift** (SFT) key only modifies the next key pressed; it must be pressed and released before each key you wish to modify.



The Ctrl and Alt keys are located on the bottom row. Functions of the Alt and Ctl keys are dependent on the software application in use.

The blue and red keys are used in combination with other keys to type the corresponding color-coded characters and functions. See the chart in A for key combinations for keyboard functions and special characters that use these keys.

The Red and Blue keys modify only the next key pressed; these keys must be pressed and released before each key you wish to modify to the Blue or Red case.

Special Keys

SCAN Key



The SCAN key "wakes" the terminal from sleep mode. Its position also allows convenient one-handed image-taking and/or bar code scanning. On the 9550 terminal, the SCAN key operates as an On or system wakeup control -- scanning is activated with the handle trigger.

Power Key

The Power key puts the terminal into Suspend Mode and also wakes terminal from suspend mode.

Shift (SFT)

The Shift key toggles the keyboard from upper case alphabet mode to lower case alphabet mode and back. Caps Lock may also be toggled by pressing the red modifier key followed by the Shift key or by double-tapping the Shift key. When Caps Lock is toggled on, the Shift key makes characters lower case; when it is toggled off, the Shift key makes keys upper case.

Enter (ENT)

The Enter key confirms data entry.

Escape (ESC)

The Escape key performs a cancel action.

Tab

The Tab key moves the cursor to the next tab stop or the next control on a form.

Backlight

The Backlight key toggles the keyboard backlights on and off. The Backlight key also turns on the LCD backlight until the selected backlight time-out expires.

Number Lock (NUM)

This key is included only on the 43-key keyboard option which defaults to alphabetic mode. The Number Lock key toggles between the alphabetic and numeric modes.

Alpha Lock (ALPHA)

This key is included only on the 35-key keyboard option which defaults to numeric mode. The Alpha key toggles between the numeric and alphabetic modes.

Backspace (BKSP)

This key appears on both the 35 and 56-keyboard options. The Backspace key moves the cursor back one space for each time the key is pressed. Backspace is a shifted function on the 43-key keyboard version. To delete a single character, press Red key + SP. To delete multiple characters, press Red key + SP and hold down the SP key.

Delete (DEL)

This key appears on both the 35 and 56-keyboard options. The Delete key deletes one character for each time the key is pressed. Delete is a shifted function on the 43-key keyboard version.

43-Key Alpha/Numeric Keyboard



Blue Key Functions and Characters

Key Combination	Function/Special Character
Blue key + D	- (minus)
Blue key + H	_ (underscore)
Blue key + L	=
Blue key + P	+
Blue key + Q	;
Blue key + R	:
Blue key + S	*
Blue key + T	/
Blue key + U	@
Blue key + X	λ.
Blue key + Y	START

Key Combination	Function/Special Character
Red key + ESC	Lightens Contrast*
Red key + TAB	Darkens Contrast*
Red key + SFT	Toggles on Caps Lock
Red key + Q	F1
Red key + R	F2
Red key + S	F3
Red key + T	F4
Red key + U	F5
Red key + V	F6
Red key + W	F7
Red key + X	F8
Red key + Z	INS (insert)
Red key + SP	BKSP (backspace)
Red key + BACKLIGHT KEY	DEL (delete)

Red Key Functions & Characters

* Exit the mouse utility prior to adjusting the contrast.

Key Combinations

Use the key combinations listed below to access certain keyboard functions or to use special characters that are not defined on the 43-key version of the Dolphin 9500/9550 keyboard.

Key/Key Combination	Function/Special Character
NUM + SFT + A	!
NUM + SFT + B	@
NUM + SFT + C	#
NUM + SFT + E	\$
NUM + SFT + F	%
NUM + SFT + G	۸
NUM + SFT + I	&
NUM + SFT + J	*
NUM + SFT + K	(
NUM + SFT + M	>
NUM + SFT + N)
NUM + SFT + O	<

Key combinations using Blue + SFT keys

Key/Key Combinations	Function/Special Characters
SFT + Blue + T	?
SFT + Blue + X	I

Miscellaneous key combinations

Key/Key Combinations	Function/Special Characters
NUM + ALT + 3 + 9*	í
NUM + ALT + 3 + 4*	ű
*Hold the ALT key down as you type in the numbers.	

35 Key Numeric/Alpha Keyboard



Blue Key Functions and Characters

Key Combination	Function/Special Character
Blue key + .	+
Blue key + ,	-
Blue key + F1	;
Blue key + F2	:
Blue key + F3	/
Blue key + F4	\
Blue key + SP	+
Blue key + DEL	-

Key Combinations

Use the key combinations listed below to access certain keyboard functions or to use special characters that are not defined on the 35-key version of the Dolphin keyboard.

Key combinations using ALPHA + SFT Keys

Key/Key Combination	Function/Special Character
ALPHA + SFT + 1	!
ALPHA + SFT + 2	@
ALPHA + SFT + 3	#
ALPHA + SFT + 4	\$
ALPHA + SFT + 5	%
ALPHA + SFT + 6	۸
ALPHA + SFT + 7	&
ALPHA + SFT + 8	*
ALPHA + SFT + 9	(
ALPHA + SFT + 0)

Miscellaneous Key Combinations

Key/Key Combinations	Function/Special Characters
ALT + 3 + 9*	٢
ALT + 3 + 4*	ű
*Hold the ALT key down as you type in the numbers.	

56 Key Full Alpha Numeric



Blue Key Functions and Characters

Key Combination	Function/Special Character
Blue key + .	+
Blue key + ,	-
Blue key + A	;
Blue key + B	@
Blue key + E	_
Blue key + F	:

Red Key Functions and Characters

Key Combination	Function/Special Character	
Red key + ESC	Lightens Contrast*	
Red key + TAB	Red key + TAB Darkens Contrast*	
Red key + SFT	Toggles on Caps Lock	
Red key + A	F1	
Red key + B	Red key + B F2	
Red key + C	F3	
Red key + D	F4	

Key Combination	Function/Special Character
Red key + E	F5
Red key + F	F6
Red key + G	F7
Red key + H	F8
Red key + I	F9
Red key + J	F10
Red key + K	F11
Red key + L	F12
Red key + M	F13
Red key + N	F14
Red key + O	F15
Red key + P	F16
Red key + Q	F17
Red key + R	F18
Red key + S	F19
Red key + T	F20
Red key + U	F21
Red key + V	F22
Red key + W	F23
Red key + X	F24
Red key + Y	Z

* Exit the mouse utility prior to adjusting the contrast.

Key Combinations

Use the key combinations listed below to access certain keyboard functions or to use special characters that are not defined on the 56-key version of the Dolphin keyboard.

Key/Key Combination	Function/Special Character
SFT + 1	!
SFT + 2	@
SFT + 3	#
SFT + 4	\$
SFT + 5	%
SFT + 6	۸
SFT + 7	&
SFT + 8	*
SFT + 9	(
SFT + 0)
SFT + . (period)	>
SFT + , (comma)	<

Key Combinations Using SFT & Number Keys

Miscellaneous Key Combinations

Key/Key Combinations	Function/Special Characters
ALT + 3 + 9*	۲ ۲
ALT + 3 + 4*	"
*Hold the ALT key down as you type in the numbers.	

Internal Com Port Assignment Table

Com Port	Assignment
Com Port 1	Serial port. This is the 17-pin connector on the bottom panel of Dolphin 9500/9550 terminals.
Com Port 2	Bluetooth Module
	If there is no Bluetooth hardware installed on the terminal, this com port is unassigned.
Com Port 3	Raw Infrared
Com Port 4	GSM Module
Com Port 5	USB virtual serial port
Com Port 6	IrDA, if IrDA is enabled.
	If IrDA is disabled, this com port becomes available.
Com Ports 7-9	Unassigned.
	These are available for selection only when connecting to devices that use virtual com ports such as Bluetooth.



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