

Chapter 1 Getting Started

Introduction

The PPT 41xx is a PC-compatible hand-held computer which incorporates pen input technology, a graphical user interface, an integrated bar code laser scanner, and radio frequency wireless LAN technology via the Symbol Spectrum One[®] and Spectrum24 PCMCIA cards. This lightweight terminal can be connected to a standard XT keyboard, and run industry standard software to further ease application development and use.

This chapter provides a brief overview of the PPT 41xx terminal, its parts and accessories.

Unpacking the Terminal

To unpack the terminal from the shipping package, carefully remove all protective material from around the terminal. Save the shipping container for later storage and shipping. Inspect all equipment for damage, and make sure you have received everything listed on the packing slip.

If you find anything damaged or unsatisfactory, contact your authorized Symbol customer support representative immediately.

The Parts of the PPT 41xx

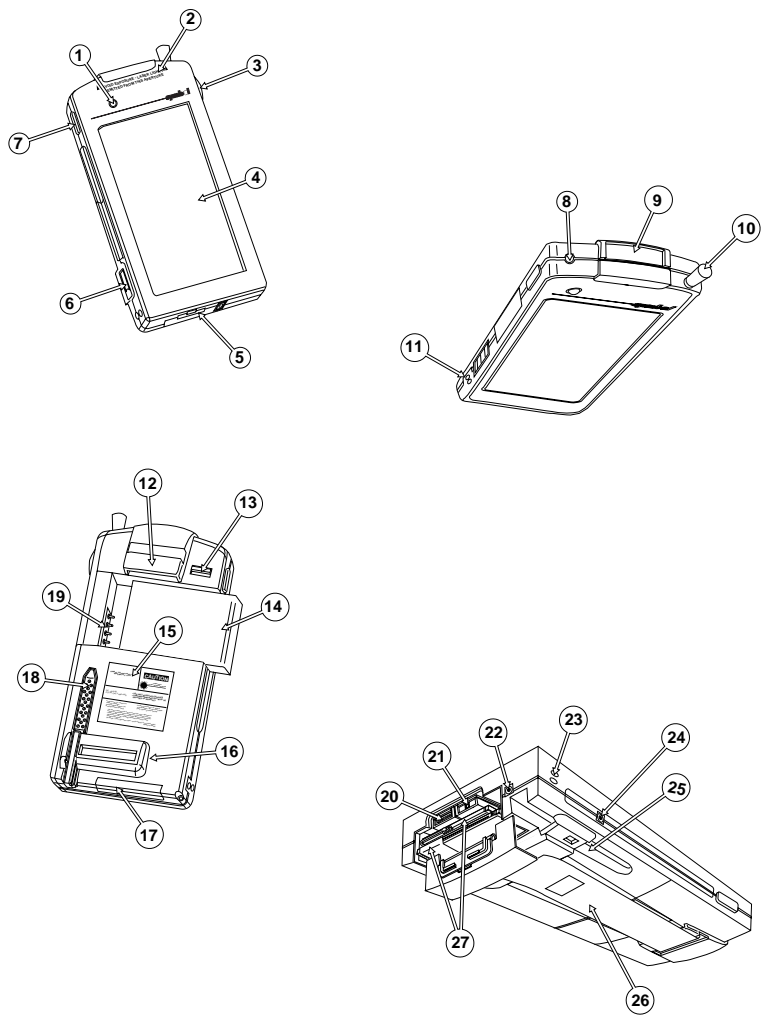


Figure 1-1. Parts of the PPT 41xx

Parts of the PPT 41xx (cont'd)

1. Scan/Decode LED
2. Regulatory Label
3. Scanner Button (right)
4. LCD
5. Serial/Keyboard Port Cover
6. IR (Infrared) Communications Port
7. Scanner Button (left)
8. Power Button
9. Scanner Window
10. Antenna (PPT 41x0)
11. Charging Contacts (left)
12. Handstrap Holder
13. Battery Pack Release Switch
14. NiMH Battery Pack
15. Caution Label
16. Handstrap Holder
17. PCMCIA Sockets Cover
18. Pen
19. Battery Pack Charging Contacts
20. Serial/RS-232 Port
21. Keyboard Port
22. AC Power Connector
23. Charging Contacts (right)
24. Reset Button
25. Pen Slot
26. Handstrap
27. PCMCIA Card Sockets

Accessories

The following accessories are available for use with the PPT 41xx.

Battery Packs

The PPT 41xx uses rechargeable NiMH battery packs (p/n 50-14000-017), which can be charged by:

- connecting one end of the AC Adapter into the terminal, and the other end into a wall socket. Using this method, the battery will be charged in 14 hours.
- placing the terminal in the cradle. The terminal will be recharged in 1.5 hours (or longer if simultaneously charging a spare battery pack).
 - Note:** This method requires software to be loaded in the cradle which will charge the terminal's battery.
- removing the battery pack from the back of the terminal, and inserting it into the cradle's battery charging slot. The battery pack will be fully recharged in 1.5 hours.

Cradles

Cradles provide three functions: storage, communication, and charging. The PPT 41xx also has two optional cradles, the CRD 4100-1010 and the CRD 4100-1000. (For international use: CRD 4100-101I and CRD 4100-100I.) For more information on these two cradles, see their respective quick reference guides listed in *Related Documents*.

Power Supplies

The part numbers of the power supplies for the PPT 41xx are: p/n 50-14000-015 for International use, p/n 50-14000-016 for use in the U.S.A. The part numbers of the power supplies for the cradles are p/n 50-14000-013 for 220VAC, or p/n 50-14000-014 for 110VAC.

Antenna

The part number for the antenna is p/n 50-11900-001 (PPT 4110). Contact your Symbol sales representative for the PPT 4140 antenna part number.

Keyboard Interface Cable

The keyboard interface cable, (p/n 25-12060-01) is used to connect the PPT 41xx to an XT-compatible keyboard. The connection is made through the keyboard port on the bottom of the terminal ([The Parts of the PPT 41xx on page 1-2](#)).

RS-232 Cable

The RS-232 cable (P/N 25-12059-01) is used for communication between the terminal and the host computer, printer, or modem. This cable has a subminiature connector on one end, which is plugged into the bottom of the PPT 41xx, and a DB9 connector on the other end, which is plugged into the serial port of the peripheral device (host PC, printer, or modem). You may need a 9-25 converter if the peripheral device has a DB-25 serial port. You may also need a Null Modem cable.

Stylus (Pen)

The part number for the stylus is 30205-0174-01.

LCD Overlay

A protective overlay is available for use on the terminal's LCD. This overlay protects the terminal from scratches and other damage. The part number of the overlay is 11-16891-01.

PCMCIA Cards

The PPT 41xx has two type II (5.0mm) sockets to be used for memory or I/O cards. The following types of PCMCIA cards are optional for use with the terminal:

- 512K Static RAM PCMCIA card
- 1MB Static RAM PCMCIA card (p/n 50-12100-086)
- 2MB Static RAM PCMCIA card
- 4MB Static RAM PCMCIA card
- The Megahertz Modem 14.4 Data/Fax XJack Modem Card (p/n 50-12100-085)
- PCMCIA Spectrum One® Radio card
- SunDisk ATA Cards
- PCMCIA Spectrum24® Radio Card

Caution

The static RAM PCMCIA card data is retained by a lithium battery inside the card. To prevent data loss, it is important for the applications to check the battery status periodically. **Replace the batteries if a low battery status is detected.** The battery status is read by the “Get Status” call in either the PCMCIA Card Services or the PCMCIA Socket Services.

PPT 4140 Spectrum24 Radio Terminals

The PPT4140 is equipped with a Spectrum24 adapter card (Type II PC card connected to an internally mounted antenna) that enables the terminal to operate in a Spectrum24 network.

The software required (interface, drivers, and configuration files) is described in the *Spectrum24 RF Communications* chapter in the *PPT 41xx System Software Manual*. For information on configuration file edits to ensure proper operation of the PPT 41xx in a Spectrum24 environment, refer to **Chapter 5, Terminal Configuration: Edit the Configuration Files**.

SDK

The PPT 41xx Software Development Kit (SDK) contains all software and documentation to assist you in developing applications to run on the PPT 41xx.

Handwriting recognition software from CIC is also provided with the SDK; other third party packages can be substituted.

You will need one or more application development environments (ADEs) from other vendors to develop applications for the PPT 41xx. Some examples are Microsoft Visual C/C++, Borland C/C++, and PenRight! for DOS.

Spectrum24 NDK

The PPT 4140 Spectrum24 Network Development Kit (NDK) contains the network drivers, a protocol stack, samples, and documentation to assist you in developing network-aware applications to run on the PPT 41xx.

To develop applications for Spectrum24 for the PPT41xx, you must install both the PPT 41xx SDK and the PPT 4140 NDK.

Before You Use the Terminal

Install and Charge Battery

Prior to using the PPT 41xx for the first time, charge the NiMH battery. The battery can be charged while in the terminal or charged separately in the cradle's charging slot. Refer to *Chapter 3, Cradle Hardware Installation*, for instructions on installing the cradle(s). Refer to *Chapter 10, Maintenance*, for instructions on installing and charging the battery.

Note: It is possible to run the PPT 41xx from an external AC adapter/charging jack while waiting for the battery to charge.

Configure the Terminal

Terminal configuration consists of loading the software and applications to terminal storage and setting the terminal's operating parameters. For configuration procedures, refer to Chapters 4-8.