symbol®

PPT 4100 Series
Portable Pen Terminals
with Integrated Scanner

The Hand-Held Information Management Terminal
featuring Wireless Communications Options

The Mobile Tool for Real-Time Decision Making

With the PPT 4110, retail store managers have a portable tool for instant access to current information.

Pen-Based and Palm-Sized for Ease of Use and Portability

In today's fast-paced business environment, knowledge is power – the power to make the right decision based on reliable, up-to-the-minute information collected on the spot.

Symbol Technologies puts the power of knowledge into the palm of your hand with the PPT 4100 Series – designed specifically for mobile, information-intensive applications. These portable pen-based terminals increase efficiency and effectiveness while improving bottom-line results in service and sales, manufacturing, distribution, retail environments, and more. Users gain instant access to point-of-sale, back office, inventory, customer profiles, pricing, product information, even up-to-date headquarters information – anywhere, any time. Your personnel always have the latest information to help run your business – without relying on an office-bound computer.

Advanced Features, Flexibility, and Expandable Capacity

Operating in an industry-standard, PC-compatible DOS environment, the PPT 4100 Series combines pen input with a Graphical User Interface (GUI), large, easy-to-use display screen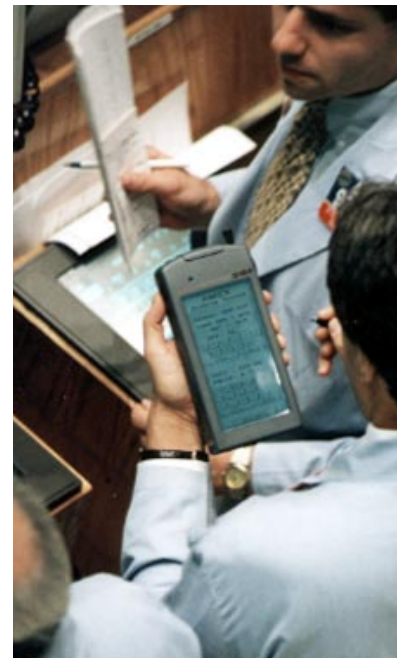, integrated bar code laser scanning, and wireless LAN technology. The integrated scanner utilizes Symbol's patented Mylar® scan element, a unique technology that creates motion without wear or tear for nonstop reliability. In fact, the Mylar scan element is so reliable that it is backed by its own limited lifetime warranty.*

Two PCMCIA card slots allow the PPT 4100 to be easily configured (and reconfigured) to keep pace with changing needs. Industry-standard/Symbol-certified PCMCIA cards provide user-selectable functions which include modems, SRAM, ATA, and Spectrum One® and Spectrum24® wireless LAN technology. Memory is easily expandable to permit complex applications and large database storage. An optional magnetic stripe reader makes the PPT 4100 ideal for credit card and ID applications.

Batch or RF Data Communications Options

Three models in the series offer you a choice of data collection and communications technology:

▸ The PPT 4100 Portable Pen Terminal is ideal for batch data capture. The 4 megabyte memory option enables you to process large amounts of information on site, speeding the work flow.

The PPT 4140 Portable Pen Terminal Series gives stock brokers the means to achieve dramatic efficiency benefits.

▸ The PPT 4110 Portable Pen Terminal uses Symbol's Spectrum One spread spectrum radio frequency (RF) network for on-line data exchange with your host computer. This proven, fast, inter-ference-free wireless solution fea-tures a high-performance cellular design for reliable throughput while providing long-range operation and data security. A single Spectrum One network will support hun-dreds of portable and fixed-station devices and can be easily expanded or upgraded.

▸ The PPT 4140 Portable Pen Terminal offers Spectrum24, Symbol's next-generation wireless LAN, a frequency hopping spread spectrum cellular network which operates within the 2.4 to 2.5 GHz bands around the world. Designed to comply with the IEEE 802.11 standard for wireless LANs, Spectrum24 features easy connec-tivity to your host, expandable capacity and superior interference immunity. It's ideal for operations requiring high levels of data throughput.

Whether you choose batch, Spectrum One or Spectrum24 data transmission, the PPT 4100 Portable Pen Terminal improves employee productivity by quickly and accurately collecting data, giving you access to vital informa-tion in support of faster, better informed decisions.

Profit from Accurate Information …Everywhere You Need It
Symbol's PPT 4100 improves real-time decision making in a wide range of data-intensive appli-cations in distribution, manufac-turing, retail and field operations. Managers can now take their computers with them to the far reaches of their enterprises to achieve greater efficiency and customer responsiveness. The PPT 4100 facilitates accurate order fulfillment, product data and customer tracking, shelf space planning, inventory replenish-ment and control. Personnel are empowered and productive at the point of action instead of at their remote workplaces.

The PPT 4100 Portable Pen Terminal with integrated scanner... another innovative data man-agement tool from Symbol Technologies. Symbol is the world leader in bar code-driven data management transaction systems with more than 5 million bar code scanners and terminals in use around the world and over 15,000 wireless local area networks installed.

Feature	Benefit
Pen input with graphical user interface	Easy to learn and use; maximizes information display space and captures signatures
Models for batch mode or two wireless communications options: Symbol's Spectrum One or Spectrum24	Flexibility to suit your application. Both RF technologies are unsurpassed for performance and reliability.
Integrated bar code scanner featuring Mylar scan element with limited lifetime warranty	Quick, error-free data entry, ultimate reliability for years of trouble-free operation
2 PCMCIA card slots	Easily configured for memory expansion, RF and modem capability; choice of cards permits a wide range of uses
Open software architecture	Choose from third-party software tools such as PenPal, VBDOS, and PenRight!
Superior ergonomics	Compact and lightweight design increases productivity and minimizes fatigue; portable and palm sized
Low power demand on rechargeable batteries	Always ready to go; operates for a full shift between charges; minimizes battery expense
Optional mag stripe reader	Reads credit cards and IDs in applica-tions such as retail and security

With the enhanced speed and accuracy advantages of the PPT 4110, manufacturers count on productivity improvements that go right to the bottom line.

PPT 4100 Specification Highlights

Dimensions

Size:	8.2" H x 4" W x 1.3" D/210 mm H x 102 mm W x 34 mm D
Weight:	16.5 oz. (468.3 gm) (w/ scanner, w/o radio or battery pack)

Display

Type:	Supertwist Reflective LCD (optional backlight)
Size:	5.5" H x 3" W/140 mm H x 74 mm W active area
Orientation:	Portrait mode (Landscape optional)
Resolution:	200 x 640 pixels, CGA

CPU and Memory

Processor:	Chips and Technologies PC-chip (F8680A)
BIOS:	Phoenix Technologies XT BIOS, Pen BIOS
OS:	MS-DOS 5.0
Real-Time Clock:	Yes
Main RAM:	Pseudo-static, 1MB base configuration, upgradable to 4MB total
Flash:	1MB

Scanner

Type:	SE1000; solid state VLD, nonretrocollective; 675 nm laser diode

User Interface

Digitizer:	Pressure-sensitive membrane, 180 dots/inch resolution, 100 dots/inch sampling rate
Pen System:	MS-mouse emulation with pressure-sensitive overlay membrane
Stylus (included):	Plastic passive-type

I/O Ports

Keyboard:	XT-compatible keycode (adapter cable optional)
RS-232:	Serial (adapter cable optional), 38.4 Kbps
Cradle Interface:	Infrared, 4 channel, 38.4 Kbps maximum

PCMCIA

Slots:	Two type II (5.0 mm slots) to be used for memory or I/O cards
Ejection:	Pull tab, protective cover
Version:	PCMCIA version 2.0 compliant socket and card services

Power

Batteries:	Removable, rechargeable NiMH pack, 1100 mAh
Charge Time:	2 hours via cradle
Backup Battery:	Rechargeable Lithium

CAUTION
DO NOT STARE INTO BEAM
LASER LIGHT
675nm LASER
1.2 MILLIWATT MAX. OUTPUT
CLASS 2 LASER PRODUCT

Environmental

Operating Temperature:	32° to 104°F (0° to 40°C)
Storage Temperature:	-4° to 140°F (-20° to 60°C)
Shock Rating:	Multiple 3.3'/1 m drops (except display face) to tiled floor
Humidity:	20% to 95% (noncondensing)
Static:	15 KV
Regulatory Agencies:	Meets FCC class B EMI limits; CDRH/IEC 825/EN60825 class 2 laser output

CE

Batch Communications

RJ-41:	RS-232-C communications capable of transmission speeds from 150 bps to 38.4 Kbps (software optional)
Internal Modem:	Megahertz® XJACK® modem supported

RF Data Communications

	Spectrum One®	Spectrum24®
Output Power:	250 mW (approx.)	100, 250, 500 mW (approx.) (varies by country)
Antenna:	Internal	Internal
Frequency:	902-928 MHz	2.4-2.5 GHz (varies by country)
Spreading Code:	Multiple, software controlled	Multiple, software controlled
Data Rate (effective):	60.6 Kbps	1 Mbps
Compliance:	Meets FCC part 15	FCC part 15 in U.S., ETSI 300.328 in Europe, RCD STD-33 in Japan Designed to comply with IEEE 802.11

The Mylar scan element consists of a Mylar strip, frame, mirror assembly and magnet. The entire unit carries Symbol's standard warranty. All Symbol warranties apply to the original owner and do not cover repair due to misuse or physical abuse. Standard warranty and warranty service information are described on the warranty card enclosed with each product or can be obtained directly from Symbol. Contact Symbol for details.

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