



PDT 3100 and PDT 3500 Portable Data Terminal Series

Expanded Data Capture, Communications
and Display Capabilities for the Industry's Leading
Portable Terminals



More options for collecting, displaying and communicating data with Symbol Portable Terminals

They're small, lightweight, 16-bit DOS-based portable data terminals with optional integrated scanning. They're built for unmatched durability and designed for flexible, single-handed operation.

And now, with expanded display, 2-D laser scanning and Spectrum24®-Symbol's next-generation wireless LAN - capabilities, Symbol's family of portable data terminals delivers more options for collecting and communicating data that's vital to your organization:

- ▶ The popular PDT 3100 - offers a choice of 4- or 8-line by 20 character displays. You can also choose between 35 or 46 alphanumeric or 21 numeric keypad configurations and optional, integrated linear (one-dimensional) bar code scanning capabilities. No wonder the PDT 3100 Series from Symbol Technologies is the bar code data capture industry's most popular portable data terminal.

- ▶ The new PDT 3500 - offers a 16-line by 21 character display for viewing more data in a single glance. The PDT 3500 also features a 47 alphanumeric keypad and optional one- or two-dimensional scan heads.

And for fast, reliable access to data, both the PDT 3100 and 3500 terminals offer real-time communications with your host computer via Symbol's Spectrum One® or Spectrum24 wireless LAN technologies.

Scanning Options to Meet a Range of Needs

The PDT 3100 and 3500 terminal series offers outstanding on-the-job scanning performance, even in the most demanding environments. Their optional scan heads have the ability to:

- ▶ Read poor-quality or large symbols, up close or at a distance;
- ▶ Deliver high first-time read rate and accuracy;
- ▶ Scan through plastic and other protective coatings;
- ▶ Rotate, permitting left- or right-hand scanning with equal ease.

What's more, the 1-D scan engine features Symbol's patented Mylar® scan element, a unique technology that creates motion without wear or tear for durable, non-stop reliability.

Portable Files for the PDT 3500

An optional, high-speed two-dimensional laser engine further expands the PDT 3500's scanning capabilities. While delivering excellent performance on 1-D symbologies, it reads Symbol's PDF417, a 2-D symbology that functions as a high-density, high-capacity "portable data file." Paper-based and transportable, PDF417 symbols carry more than a kilobyte of machine-readable code in a space no larger than a standard bar code. The result is low-cost access to large amounts of information without the need to link to an external database.



Entire shipping labels, manifests, asset tracking information, vehicle registrations and much more all become instantly readable using PDF417 and the PDT 3500. And the PDT 3500's 16-line display allows users to view more data in a single glance, making it ideal for supporting the large data files that PDF417 supplies.

Communications Options Adapt to Your Environment

Symbol's PDT 3100 and 3500 Portable Data Terminal Series offers an unsurpassed range of data transmission alternatives: batch processing, or choose from Symbol's two wireless LAN technologies for quick access to vital information:

- ▶ Spectrum One spread spectrum radio frequency (RF) network for online data exchange with your host computer. This fast, interference-free wireless solution features



Bar code data management on the go is sure and simple with Symbol's PDT 3100 - the portable data terminal that's perfect for your 1-D applications.



Portable Data Terminals from Symbol give your retail applications the performance and flexibility you need to compete – from shipping and receiving to price checking and order entry.

a high-performance cellular design for reliable throughput while providing long-range operation and data security.

► Spectrum24 – Symbol's next-generation wireless LAN features a commitment to open standards at every hardware and software interface. Designed to comply with the IEEE 802.11 standard for wireless LANs, Spectrum24 is ideal for applications requiring high levels of data throughput.

Ideal for Data-Intensive Applications

Symbol's portable data terminals are ideal for data-intensive applications in a wide range of industries including retail, where portable data terminals bring new levels of speed and accuracy to shelf price audits, price checking, order entry, inventory control, shipping, picking and receiving. Transportation and logistics companies will find they provide more efficient ways to perform package/baggage tracking, picking and receiving, and cross-dock applications.

Proven Past, Unlimited Future

Symbol's PDT 3100 and 3500 Portable Data Terminal Series has a proven history of performance and reliability second to none. Now, the series is even larger, with more options to help you collect and communicate information that's vital to your organization. It's another example of strategic thinking from Symbol Technologies, the leader in bar code-driven data management systems, with more than 6 million scanners and terminals installed worldwide.

PDT 3100/PDT 3500 Options

PDT 3100	Integrated 1-D scan head available. Choose between 4- or 8-line display, 35- or 46-alphanumeric and 21 numeric keypads.
PDT 3500	Integrated 1-D scan head available. Plus the PDT 3500 is the first portable key entry terminal to read PDF417 – 2-D portable data files. Includes a 16-line display and 47-alphanumeric keypad.
Batch or wireless models: The PDT 3100 and 3500 feature your choice of batch processing or either of two wireless communications technologies for data transmission: Symbol's Spectrum One or Spectrum24	Both radio frequency (RF) technologies are unsurpassed for performance, reliability, and ease of installation and use.

Feature Benefit

DOS operating system	Standard 16-bit DOS software environment for easy development.
Rotating scan head	Allows one-hand operation for scanning and data capture transactions.
Side-mounted alpha shift/laser key	Users may select left- or right-trigger for optimal comfort and maximum productivity.
Comfortable grip	Complete user comfort without stress or fatigue, even over extended periods of use.
Resonant scan element	Ultimate reliability for years of trouble-free operation.
Durable design and construction	Stands up to rough handling – including 4-foot/1.2m drops to concrete, a real plus in transportation applications.
Battery life	Full-shift battery life keeps employees productive.
Full range of options	Choose modem, memory and communications technology according to your specific needs.



Symbol's PDT 3500 offers the extra capacity of 2-D bar code scanning when you need to capture larger volumes of data.

PDT 3100 and PDT 3500 Specification Highlights

Physical Characteristics

Dimensions:	PDT 3100 with 4- or 8-line display with 1-D scanning: 1.9" D x 3" W x 9.38" H/4.8 cm D x 7.6 cm W x 23.83 cm H PDT 3500 with 16-line display with 1-D scanning: 2.25" D x 3.5" W x 11.25" H/5.7 cm D x 8.9 cm W x 28.5 cm H PDT 3500 with 16-line display with 1- and 2-D scanning: 2.25" D x 3.5" W x 11.75" H/5.7 cm D x 8.9 cm W x 29.8 cm H
Weight:	PDT 3100 Series: 15.5 oz./440 gm to 16.9 oz./480 gm; PDT 3500 Series: 25.5 oz./724 gm to 29.4 oz./834 gm includes battery and laser module

User Environment

ESD:	15KV electrostatic discharge to all surfaces w/o loss of data
Humidity:	0% to 95% non-condensing at 122°F/50°C
Drop:	Unit functions normally after 4-ft./1.2m drop to concrete
Operating Temperature:	32° to 104°F/0° to 40°C
Storage Temperature:	-4° to 140°F/-20° to 60°C

Performance Characteristics

Microprocessor:	80c88 type (8 MHz/V25)
ROM:	System EPROM 128 KB (DOS, BIOS, and terminal diagnostics)
Non-Volatile Memory:	256KB for program storage in a protected area
RAM Memory:	Up to 7.6 MB for data and/or program storage
Keyboard:	PDT 3100 Series: 21-key hard key cap; 35-key, or 46-key conductive rubber; side alpha-shift key and scan trigger PDT 3500 Series: 47-key conductive rubber; side alpha-shift key and scan trigger
Display:	PDT 3100 Series: 4-line or 8-line by 20 characters, supertwist (STN) LCD, back light, reverse video, double-high and double-wide characters PDT 3500 Series: 16-line by 21 characters, supertwist (FSTN) LCD, back light, reverse video, double-high and double-wide characters
Real-Time Clock:	Time and date stamping under software control
Interfaces:	DE9: tethered laser scanner or contact wand; RJ-41: for cradle, cable or printer interface



Batch Communications

RJ-41:	Limited RS-232-C communications capable of transmission speeds from 150 bps to 38.4 Kbps (software optional)
Internal Modem:	PDT 3100 Series only: Direct connect modem option supporting V.21, V.22, V.22bis, V.23, 103/212, V.42, V.42bis through rear-mounted RJ-11
Internal Acoustic Modem:	PDT 3100 Series only: Acoustic modem option supporting simplex transmit modes V.21, V.23, (1200, 1350) rear-mounted coupler

RF Data Communications

	Spectrum One®	Spectrum24®
Output Power:	250 mW (approx.)	100, 230, 500 mW (approx.) (varies by country)
Antenna:	Internal	Internal, diversity
Frequency:	902-928 MHz (spread spectrum modulation)	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 (for U.S. use only)	FCC part 15 in U.S. only, ETSI 300.328 in Europe, RCD STD-33 in Japan

Peripherals

Optional Laser Module:	PDT 3100 Series: Scanning module rotates 180° for right or left-handed operation; supports one-dimensional bar codes only; standard and long-range models; PDT 3500 Series: Scanning module rotates 180° for right or left-handed operation; supports one- and two-dimensional PDF417 bar codes
Contact Wands:	Including 6 or 10 mil (.15 or .26 mm) aperture choices
Communications/Charging Adapter:	Provides trickle charging of NiCd batteries and provides full RS-232-C voltages and signals
Single-Slot Cradle:	PDT 3100 Series: Full RS-232-C, 25 pin connector, optional internal modem; Rapid charging: 90 mins. NiCd, 120 mins. NiMH PDT 3500 Series: Full RS-232-C, 25 pin connector, optional internal modem; Rapid charging: 200 mins. NiCd, 300 mins. NiMH
Four-Slot Cradle:	Equivalent to single-slot functionally without the modem option
Power:	PDT 3100 Series: 9-volt alkaline battery; Rechargeable NiCd battery pack; High capacity NiMH battery pack PDT 3500 Series: Rechargeable NiCd battery pack; High capacity NiMH battery pack



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For system, product or services availability and specific information within your country, please contact your local Symbol Technologies office or Certified Business Partner.



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