

## PORTABLE DATA TERMINALS

### Portable and Rugged Terminals for Scan-Intensive Applications

The PDT 6800 Series are rugged, lightweight portable data terminals combining mobile computing and optional wireless communications with comfortable, well-balanced “forward-scanning” ergonomics. Designed for harsh environments, the PDT 6800 is excellent for industrial markets such as transportation and distribution, yet small enough for scan-intensive applications in retail, such as inventory management and replenishment, price management and receiving.

Building on the legacy of Symbol’s popular Laser Data and Laser Radio Terminals, this single-handed productivity tool offers a spacious 46-key alphanumeric keypad, internally mounted radio antenna, and your choice of standard, long-range or high-visibility scanning options. Communications options include both Spectrum24® Direct Sequence and Frequency Hopping wireless LAN connectivity for real-time high-performance data transfer. Or, choose batch communications with an extended memory option for on-site processing and quick uploading/downloading to your PC. Additionally, the PDT 6800 was specifically designed to make full use of existing LRT/LDT cradles and peripherals, providing a total system solution without the added cost of changing the accessories.

### Flexible Computing Where You Need It

The PDT 6800 incorporates a convenient and powerful DOS-based industry standard architecture that allows for efficient programming and development of demanding interactive, information-intensive applications. Whether your application calls for inventory counts, shelf price audits, receiving, stock transfers, markdowns or purchasing, the large 16-line backlit display provides greater data content and readability. Easily connect a portable printer and you can generate new bar codes for price markdowns or shelf label changes – right on the sales floor!

This tough terminal also has a ruggedized housing to withstand multiple 4 ft./1.2 m drops to concrete—across its entire operating temperature range – and is environmentally sealed against severe weather conditions, including dust and rain. Add in Spectrum24 wireless LAN connectivity with a high-visibility scanner and you have a durable decision support tool for real-



Features	Benefits
Forward-scanning ergonomics	Comfortable, well-balanced
Large 16-line backlit display	High visibility, greater data content
46-key alphanumeric keypad	Quick and easy data input
DOS-based architecture	Reliable, industry standard system
Sealed to IP54 standards	Protects against rain and dust
Large battery capacity	Ample power for full shifts

time data management that reads bar codes accurately in full sunlight outdoors or in high-intensity, artificial light indoors. The terminal includes a large-capacity battery, making the PDT 6800 Series ideal for increased productivity in warehouses, distribution centers and trucking operations.

Symbol is the worldwide leader in bar code-driven data management systems with thousands of wireless network installations and millions of scanners and terminals in use. To find out how the PDT 6800 can work for your application, call any of our convenient locations on the back address panel, or visit us at [www.symbol.com](http://www.symbol.com)

# PDT 6800 Laser Data Terminal Series Specification Highlights

## Physical and Environmental Characteristics

Dimensions:	7.0 in. H x 3.5 in. W x 8.8 in. L / 178 mm H x 89 mm W x 224 mm L
Weight:	Batch: 24 oz./672 gm with battery Wireless: 26 oz./728 gm with battery
Operating Temperature:	-13° to 122° F / -25° to 50° C
Storage Temperature:	-13° to 140° F / -25° to 60° C
Humidity:	95% relative humidity, noncondensing
Drop Spec:	Multiple 4 ft./1.2 m drops to concrete
Environmental Sealing:	MIL-STD-810E/SAEJ1211/IP54
ESD:	15KV electrostatic discharge to all surfaces without loss of data
Keyboard, Standard:	46 large, hard, alphanumeric keys
Keyboard, IBM:	46-key, IBM 5250 or 3270 keypads and overlays
Display:	16-line by 21-character FSTN LCD, back light, reverse video, double-high and double-wide characters
Power:	Removable, rechargeable battery pack

## Computer

CPU:	80C88 type @ 8 MHz
Operating System:	DR-DOS
ROM:	128 KB EPROM (DOS, BIOS, Terminal Diagnostics)
RAM:	640 KB standard (up to 6.1 MB for batch option)
Non-Volatile Memory:	256 KB standard (up to 1.2 MB for RF option)
Application Development:	Symbol Series 3000 Applications Development Kit

## Peripherals & Accessories

Cradles:	Single-slot and four-slot cradles available
Printers:	Supports extensive line of Symbol-approved printers, cables and accessories
4-Slot Battery Charger:	Recharges multiple batteries
Battery Adapter:	Used with Universal Battery Charger

## RF Communications

Network:	Spectrum24®
Data Rate:	2 Mbps or 11 Mbps
Spreading Technique:	Frequency Hopping 2 Mbps; Direct Sequence 11 Mbps
Antenna:	Internal
Range:	2 Mbps: up to 2000 ft./606 m in open environments and up to 180 to 250 ft./54.5 to 75.7 m in a typical office or retail store 11 Mbps: Open space – up to 1000 ft./303 m; Typical: 180 ft. to Radio; Channel 250 ft./54.5 to 76 m
Radio Channel Access Method:	CSMA/CA
Ethernet Compatibility:	DIX Ethernet
Output Power:	500 mW U.S.; 100 mW international
Frequency Range:	Country dependent, typically 2.4 to 2.5 GHz

## Regulatory

Electrical Safety:	Certified to UL 1950, CSA C22.2 No. 950, EN60950/IEC950
EMI/RFI:	FCC Part 15 Class A, ICES-003 Class B, European Union EMC Directive, Australian SMA
Hazardous Locations:	Factory Mutual Approved – Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G; Class III, Division 1, 2 Intrinsically Safe for Class I, Division 1, Groups A, B, C, D
TUV Certified:	EX 1b Ilc T4
Laser Safety:	CDRH Class II, IEC Class 2

# EN410

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