Symbol PDT 6800 Series

symbol

PORTABLE DATA TERMINAL

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 the popular Laser Data and Laser Radio Terminals from Symbol Technologies, this single-handed productivity tool offers a spacious 35- or 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[®] and Spectrum One[®] wireless LAN connectivity for real-time highperformance 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 DOSbased 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, with plenty of space for graphics. 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 4ft/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-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 networks 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

Summary of Features

- Forward-scanning ergonomics
- Large 16-line backlit, high-visibility display
- ▶ 35- or 46-key alphanumeric keyboard
- Internal radio antenna
- Reliable DOS-based industry standard architecture
- ▶ Ruggedized to withstand multiple 4 ft/1.2 m drops to concrete
- Industrial version is environmentally sealed to IP54 against rain and dust
- Large-capacity battery
- Choice of standard, long-range or high-visibility scanning options
- Choice of Spectrum24 or Spectrum One wireless networks, or batch communications
- Extended memory options

PDT 6800 Laser Data Terminal Series Specification Highlights

to 75.7m in a typical office or retail store Radio Channel CSMA/CA CSMA/CA Access Method: CSMA/CA CSMA/CA Ethernet Compatibility: Via Network Control Unit DIX Ethernet Output Power: 250 mW 500 mW U.S.; 100 mW international	Physical and Enviror	nmental Characteristic	
Wireless: 26 oz/728 gm with NiCad battery Operating Temperature: Retail Version: -4" to 122°F/(-20° to 50°C) Industrial Version: -31" to 122°F/(-25° to 50°C) Industrial Version: -31" to 122°F/(-25° to 50°C) Storage Temperature: -13" to 140° F/(-25" to 60° C) Humidity: 95% relative humidity, non-condensing Drop Spec: Multiple 4 ft/1.2 m drop to concrete Environmental Sealing: Retail Version: MIL-STD-810E/SAE11211/Industrial Version: IP54 ESD: 15KV electrostatic discharge to all surfaces without loss of data Keyboard, IBM: 46 key, IBM 5250 or 3270 keypads and overlays Display: 16-line by 21-character FSIN LCD, back light, reverse video, double-high and double-wide characters Power: Power: Removable, rechargeable NiCad 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 1.2 MB for wireless option) Application Development: Symbol Series 3000 Applications Development Kit Perlpherals & Accessories Supports extensive line of Symbol-approved printers, cables and accessories <	Dimensions:	7.0in. H x 3.5in. W x 8.8in. I	L/178 mm H x 89 mm W x 224 mm L
Industrial Version: -13" to 122"F/(-25" to 50°C) Storage Temperature: -13" to 140" F/(-25" to 60" C) Humidity: 95% relative humidity, non-condensing Drop Spec: Multiple 4 ft/1.2 m drop to concrete Environmental Sealing: Retail Version: MIL-STD-810E/SAEJ1211/Industrial Version: IP54 ESD: 15KV electrostatic discharge to all surfaces without loss of data 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 NICad pack Computer 200288 type @ 8 MHz Operating System: DR-DOS RAM: 640 KB Standard (up to 6.1 MB for batch option) Non-Volatile Memory: 256 KB Standard (up to 1.2 MB for wireless option) Application Development: Symbol Series 3000 Applications Development Kit Peripherals & Accessories 430 0 4.50t Battery Charger: Recharges multiple batteries Battery Adapter: Used with Universal Battery Charger RF Communications 510 6340 Spreading Technique: Direct sequence Frequency hopping (1 Mbps) Driest sequence	Weight:	Batch: 24 oz/672 gm with NiCad battery	
Humidity: 95% relative humidity, non-condensing Drop Spec: Multiple 4 ft/1.2 m drop to concrete Environmental Sealing: Retail Version: MIL-STD-B10E/SAEJ1211/Industrial Version: IP54 ESD: 15KV electrostatic discharge to all surfaces without loss of data Keyboard, Standard: 35 or 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 NiCad pack Computer 002 BX 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 wireless 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 6840 Astery Adapter: Used with Universal Battery Charger RF Communications Spectrum One® Spectrum24®	Operating Temperature:	Retail Version: -4° to 122°F/(-20° to 50°C)	
Drop Spec: Multiple 4 ft/1.2 m drop to concrete Environmental Sealing: Retail Version: MIL-STD-810E/SAEJ1211/Industrial Version: IP54 ESD: 15KV electrostatic discharge to all surfaces without loss of data Keyboard, Standard: 35 or 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 NiCad pack Computer 80C88 type @ 8 MHz Operating System: DR-DOS ROM: 128 KB EPROM (DOS, BIOS, Terminal Diagnostics) RAM: 640 KB Standard (up to 1.2 MB for wireless option) Non-Volatile Memory: 256 KB Standard (up to 1.2 MB for wireless option) Application Development: Symbol Series 3000 Applications Development Kit Peripherals & Accessories Cradles: Cradles: Single slot and four-slot cradles available Printers: Supports extensive line of Symbol-approved printers, cables and accessories 4-Stot Battery Charger: Recharges multiple batteries Battery Adapter: Used with Universal Battery Charger RF Communications 6910 6840 <td>Storage Temperature:</td> <td colspan="2">· · · · ·</td>	Storage Temperature:	· · · · ·	
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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 wireless option) Application Development: Symbol Series 3000 Applications Development Kit Peripherals & Accessories Cradles: 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 6810 6840 Network: Spectrum One® Spectrum24® Spreading Technique: Direct sequence Frequency hopping (1 Mbps) Direct Sequence (11 Mbps) Data Rate: 60.6 Kbps 1 Mbps on 11 Mbs Antenna: Internal Internal Range: Open space: 1500 ft./151 m Typical: 500 ft./151 m Typical: 500 ft./151 m 11 Mbps: Open space - up to 1000 ft/303 m Typ	Display:		
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cables and accessories Frequency Adapter: 4-Slot Battery Charger: Recharges multiple batteries Battery Adapter: Used with Universal Battery Charger RF Communications 6810 Network: Spectrum One® Spreading Technique: Direct sequence Direct sequence Frequency hopping (1 Mbps) Direct Sequence Frequency hopping (1 Mbps) Data Rate: 60.6 Kbps 1 Mbps or 11 Mbs Antenna: Internal Internal Range: Open space: 1500 ft/454 m Typical: 180 ft. to Radio Channel 250 ft/54.5 to 76 m 2 Mbps: Up to 2,000 ft/606m in open Radio Channel CSMA/CA CSMA/CA Radio Channel CSMA/CA CSMA/CA Ethernet Compatibility: Via Network Control Unit DIX Ethernet Output Power: 250 mW 500 mW U.S.; 100 mW international Frequency Range: 902 to 928 MHz Country dependent, typically 2.4 to 2.5 Gr	Cradles:	Single slot and four-slot cradles available	
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Output Power: 250 mW 500 mW U.S.; 100 mW international Frequency Range: 902 to 928 MHz Country dependent, typically 2.4 to 2.5 GI		CSMA/CA	CSMA/CA
Frequency Range: 902 to 928 MHz Country dependent, typically 2.4 to 2.5 G	Ethernet Compatibility:	Via Network Control Unit	DIX Ethernet
	Output Power:	250 mW	500 mW U.S.; 100 mW international
Regulatory	Frequency Range:	902 to 928 MHz	Country dependent, typically 2.4 to 2.5 G
	Regulatory		
Electrical Safety: Certified to UL1950, CSA C22.2 No.950, EN60950/EIC950		Certified to UL1950, CSA C22.2 No.950, EN60950/EIC950	
	Electrical Safety:	Certified to UL1950, CSA C2	22.2 No.950, EN60950/EIC950

FCC Part 15 Class A, ICES-003 Class B, European Union EMC Directive,

Division 2, Groups F, G; Class III, Division 1,2 Intrinsically Safe for Class I, Division 1, Groups A, B, C, D;

Factory Mutual Approved - Class I, Division 2, Groups A, B, C, D; Class II,

Long Range Decode Zone 43.2 In. ______ 30 In. 76.2 Cm _____ 20 In. 50.8 Cm 10 In. 0 In. 0 Cm 10 In. 20 In. 30 In. 76.2 Cm 10 m 43.2 In. 15 m**i** 20 mil. 55 mi 0 mil Refl 100 mil Reflective

0 In. 20 In. 40 In. 60 In. 80 In. 100 In. 110 In. 120 In. 130 In. 140 In. 150 In. 150 In. 150 In. 150 In. 170 In. 0 Cm. 50.8 Cm. 101.8 Cm. 152.4 Cm. 203.2 Cm. 254 Cm. 270.4 Cm. 304.8 Cm. 330.2 Cm. 355.6 Cm. 381.0 Cm. 408.4 Cm.

Typical Depth of Field in Inches/Centimeters

Standard Decode Zone Width of Field in Inches/Centi neters 15.59 In. 39.6 Cm 10.0 In. 25.4 Cm 5.0 ln. 12.7 Cm 0 In. 0 Cm Standar Angle 5.0 ln. 12.7 Cm 5 Mil 7.5 Mil 10.0 In. 25.4 Cm 10 Mil 15 Mil *20 Mil 15.59 In. 39.6 Cm *40 Mil *55 Mi 5 In. 10 In. 15 In. 20 In. 25 In. 30 In. 35 In. 40 In. 45 In. 12.7 Cm 25.4 Cm 38.1 Cm 50.8 Cm 63.5 Cm 76.2 Cm 91.4 Cm 101.6 Cm 114.3 Cm 0 In.

Typical Depth of Field in Inches/Centimeters

*Minimum distance determined by Symbol length and scan angle



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Australian SMA



Hazardous Locations:

EMI/RFI:

BUSINESS PARTNER



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