# 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<sup>®</sup> and Spectrum One<sup>®</sup> 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:	· · · · ·	
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   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     RF Communications   6810   6840     Network:   Spectrum One®   Spectrum24®     Spreading Technique:   Direct sequence   Frequency hopping (1 Mbps) Direct Sequence (11 Mbps)     Direct sequence   Thernal   11Mbps Open space -up to 1000 ft./303 m Typical: 500 ft./151 m <td>Humidity:</td> <td colspan="2"></td>	Humidity:		
ESD:   15KV electrostatic discharge to all surfaces without loss of data     Keyboard, IBM:   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   0     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   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: Open space - up to 1000 ft/303 m   Typical: 180 ft./	Drop Spec:	Multiple 4 ft/1.2 m drop to concrete	
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     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   45 840     Astery Adapter:   Used with Universal Battery Charger     RF Communications   6810   6840     Network:   Spectrum One®   Spectrum24®     Spreading Technique:   Direct sequence   Frequency hopping (1 Mbps)     Direct sequence   Frequency hopping (1 Mbps)   Direct Sequence     Notwork:   Spectrum One®   Spectrum24®     Spreading Technique:   Direct sequence   Trequency hopping (1 Mb	Environmental Sealing:	Retail Version: MIL-STD-810E/SAEJ1211/Industrial Version: IP54	
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 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   4-Slot Battery Charger:     RF Communications   6810   6840     Network:   Spectrum One®   Spectrum24®     Spreading Technique:   Direct sequence   Frequency hopping (1 Mbps)     Direct sequence   Frequency hopping (1 Mbps)   Direct Sequence (11 Mbps)     Data Rate:   60.6 Kbps   1 Mbps or 11 Mbs   Antenna:     Range:   Open space: 1500 ft/454 m   11 Mbps: Opt or 2000 ft/606 m in open environments and up to 180 to 250 ft/50 to 7	ESD:	15KV electrostatic discharge to all surfaces without loss of data	
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 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   Single slot and four-slot cradles available     Printers:   Supports extensive line of Symbol-approved printers, cables and accessories     4-Slot Battery Charger:   Recharges multiple batter/s     Battery Adapter:   Used with Universal Battery Charger     RF Communications   6810   6840     Network:   Spectrum One <sup>®</sup> Spectrum24 <sup>®</sup> Spreading Technique:   Direct sequence   Frequency hopping (1 Mbps) Direct Sequence (11 Mbps)     Data Rate:   60.6 Kbps   1 Mbps or 11 Mbs     Antenna:   Internal   Internal     Range:   Open space: 1500 ft/151 m   10 Mbps: Up to 2,000 ft/60 m in open environments and up to 180 to 250 ft/54 to 75. m o 75. m in a typical	Keyboard, Standard:	35 or 46 large, hard, alphanumeric keys	
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 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)     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/545 to 76 m     Access Method:   CSMA/CA   CSMA/CA	Keyboard, IBM:	46 key, IBM 5250 or 3270 keypads and overlays	
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:		
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:     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   Recharges multiple batteries     Battery Adapter:   Used with Universal Battery Charger     RF Communications   6810     Network:   Spectrum One®   Spectrum24®     Spreading Technique:   Direct sequence   Frequency hopping (1 Mbps) Direct Sequence (11 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     Access Method:   CSIMA/CA   CSIMA/CA     CMACA   CSI	Power:	Removable, rechargeable NiCad pack	
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     Frequency hopping (1 Mbps)     Direct sequence (11 Mbps)       Data Rate:     60.6 Kbps     1 Mbps or 11 Mbs     Internal       Range:     Open space: 1500 ft/454 m     11 Mbps: Open space - up to 1000 ft/303 m     Typical: 180 ft. to Radio       Range:     Open space: 1500 ft/454 m     11 Mbps: Open space - up to 1000 ft/303 m     Typical: 180 f	Computer		
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     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 or 11 Mbs     Antenna:   Internal   Internal     Range:   Open space: 1500 ft./151 m   Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m     Radio Channel   CSMA/CA   CSMA/CA   CSMA/CA     Radio Channel   CSMA/CA   CSMA/CA   CSMA/CA     Radio Channel   CSMA/CA   CSMA/CA   CSMA/CA     Coupty Power:   <	CPU:	80C88 type @ 8 MHz	
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     4-Slot Battery Charger:   Recharges multiple batteries     Battery Adapter:   Used with Universal Battery Charger <b>RF Communications</b> 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 or 11 Mbs     Antenna:   Internal   Internal     Range:   Open space: 1500 ft./51 m   Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m     Radio Channel   CSMA/CA   CSMA/CA   CSMA/CA     Radio Channel   CSMA/CA   CSMA/CA   CSMA/CA     Radio Channel   CSMA/CA   CSMA/CA   CSMA/CA     Ethernet Compatibility:   Via Network Control Unit   DIX Ethernet	Operating System:		
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     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 or 11 Mbs     Antenna:   Internal   Internal     Range:   Open space: 1500 ft./54 m Typical: 500 ft./51 m   Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m 2 Mbps: Up to 250 ft/54.5 to 75 m 2 Mbps: Up to 250 ft/54.5 to 75.7m in a typical office or retail store     Radio Channel   CSMA/CA   CSMA/CA     Radio Channel   CSMA/CA   CSMA/CA     Radio Channel   CSMA/CA   CSMA/CA     Ethernet Compatibility:   Via Network Control Unit   DIX Ethernet     Output Power:   250 mW	ROM:	128 KB EPROM (DOS, BIOS, Terminal Diagnostics)	
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   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 or 11 Mbs     Antenna:   Internal   Internal     Range:   Open space: 1500 ft./454 m Typical: 500 ft./151 m Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m 2 Mbps: Up to 2,000 ft/606m in open environments and up to 180 to 250 ft/54 to 75.7m in a typical office or retail store     Radio Channel   CSMA/CA   CSMA/CA     Access Method:   CSMA/CA   CSMA/CA     Cathernet Compatibility:   Via Network Control Unit   DIX Ethernet     Output Power:   250 mW   500 mW U.S.; 100 mW international     Frequency Range:   902 to 928 MHz   Cou	RAM:	640 KB Standard (up to 6.1	MB for batch option)
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 <b>RF Communications 6810 6840</b> Spectrum24®     Spreading Technique:   Direct sequence     Direct sequence   Frequency hopping (1 Mbps)     Direct Sequence   Frequency hopping (1 Mbps)     Direct Sequence   Internal     Antenna:   Internal     Range:   Open space: 1500 ft/454 m     Typical: 500 ft/151 m   Typical: 180 ft. to Radio     Channel 250 ft/54.5 to 76 m   2 Mbps: Up to 2,000 ft/606m in open     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     Frequency Range:   902 to 928 MHz   Country dependent, typically 2.4 to 2.5 Gt	Non-Volatile Memory:	256 KB Standard (up to 1.2	MB for wireless option)
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 <b>RF Communications 6810 Astor Spectrum One®</b> Spectrum24®     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   11 Mbps: Open space - up to 1000 ft/303 m     Typical: 500 ft./151 m   Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m     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     Frequency Range:   902 to 928 MHz   Country dependent, typically 2.4 to 2.5 Gt	Application Development:	Symbol Series 3000 Applica	ations Development Kit
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 <b>RF Communications 6810 Network:</b> Spectrum One <sup>®</sup> Spreading Technique:   Direct sequence     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   11 Mbps: Open space - up to 1000 ft/303 m     Typical: 500 ft./151 m   Typical: 180 ft. to Radio   Channel 250 ft./454. to 76 m     Radio Channel   CSMA/CA   CSMA/CA   CSMA/CA     Radio Channel   CSMA/CA   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 Gt	Peripherals & Access	sories	
cables and accessories   Frequency Adapter:     4-Slot Battery Charger:   Recharges multiple batteries     Battery Adapter:   Used with Universal Battery Charger <b>RF Communications 6810</b> 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	
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 or 11 Mbps     Antenna:   Internal   Internal     Range:   Open space: 1500 ft/454 m Typical: 500 ft/.151 m   11 Mbps: Open space - up to 1000 ft/.303 m Typical: 180 ft. to Radio Channel 250 ft/.54.5 to 76 m 2 Mbps: Up to 2,000 ft/606m in open environments and up to 180 to 250 ft/54 to 75.7m in a typical office or retail store     Radio Channel 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     Frequency Range:   902 to 928 MHz   Country dependent, typically 2.4 to 2.5 GF	Printers:		
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 or 11 Mbs       Antenna:     Internal     Internal       Range:     Open space: 1500 ft./454 m Typical: 500 ft./151 m     11 Mbps: Open space - up to 1000 ft./303 m Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m 2 Mbps: Up to 2,000 ft/606m in open environments and up to 180 to 250 ft/54 to 75.7m in a typical office or retail store       Radio Channel 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       Frequency Range:     902 to 928 MHz     Country dependent, typically 2.4 to 2.5 GF	4-Slot Battery Charger:	Recharges multiple batteries	
Network:     Spectrum One®     Spectrum24®       Spreading Technique:     Direct sequence     Frequency hopping (1 Mbps) Direct Sequence (11 Mbps)       Data Rate:     60.6 Kbps     1 Mbps or 11 Mbs       Antenna:     Internal     Internal       Range:     Open space: 1500 ft./454 m Typical: 500 ft./151 m     11 Mbps: Open space - up to 1000 ft./303 m Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m 2 Mbps: Up to 2,000 ft/606m in open environments and up to 180 to 250 ft/54 to 75.7m in a typical office or retail store       Radio Channel 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       Frequency Range:     902 to 928 MHz     Country dependent, typically 2.4 to 2.5 GF	Battery Adapter:	Used with Universal Battery Charger	
Spreading Technique:   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: 500 ft./151 m   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   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 GF	<b>RF</b> Communications	6810	6840
Direct Sequence (11 Mbps)     Data Rate:   60.6 Kbps   1 Mbps or 11 Mbs     Antenna:   Internal   Internal     Range:   Open space: 1500 ft./454 m Typical: 500 ft./151 m   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   CSMA/CA     Ethernet Compatibility:   Via Network Control Unit Output Power:   DIX Ethernet     Output Power:   902 to 928 MHz   Country dependent, typically 2.4 to 2.5 GF	Network:	Spectrum One®	Spectrum24®
Antenna:     Internal     Internal       Range:     Open space: 1500 ft/454 m Typical: 500 ft/151 m     11 Mbps: Open space - up to 1000 ft/303 m Typical: 180 ft. to Radio Channel 250 ft/54,5 to 76 m 2 Mbps: Up to 2,000 ft/646 mi open environments and up to 180 to 250 ft/54 to 75.7m in a typical office or retail store       Radio Channel 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       Frequency Range:     902 to 928 MHz     Country dependent, typically 2.4 to 2.5 Gt	Spreading Technique:	Direct sequence	
Range:   Open space: 1500 ft/454 m Typical: 500 ft/151 m   11 Mbps: Open space - up to 1000 ft/303 m Typical: 180 ft. to Radio Channel 250 ft/54.5 to 76 m 2 Mbps: Up to 2,000 ft/640 m io open environments and up to 180 to 250 ft/54 to 75.7m in a typical office or retail store     Radio Channel 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     Frequency Range:   902 to 928 MHz   Country dependent, typically 2.4 to 2.5 Gt	Data Rate:	60.6 Kbps	1 Mbps or 11 Mbs
Typical: 500 ft./151 m   Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m     Radio Channel Access Method:   CSMA/CA     Ethernet Compatibility:   Via Network Control Unit     DIX Ethernet   DIX Ethernet     Output Power:   250 mW     500 mW U.S.; 100 mW international     Frequency Range:   902 to 928 MHz	Antenna:	Internal	Internal
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     Frequency Range:   902 to 928 MHz   Country dependent, typically 2.4 to 2.5 GF	Range:		Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m 2 Mbps: Up to 2,000 ft/606m in open environments and up to 180 to 250 ft/54
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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