PDT 7500 Series Portable Data Terminals

PDCT-A Class Terminal
Power and Performance for Extreme Environments

The feature-rich PDT7500 Portable Data Terminal from Symbol Technologies thrives in the desert, arctic and maritime environments.

One of the pioneers in Symbol's line of products for extreme environments, the PDT 7500 industrial terminal, is a lightweight handheld terminal with advanced bar code scanning, data processing and communications features. Designed for productivity and comfort in demanding environments, the versatile PDT 7500 links users to data and to each other in transportation and logistics environments such as warehouses, docks, freight yards, ships, and custody exchange points.

Designed for Extreme Environments

PDT 7500 Series terminals meet the most stringent industrial standards and are sealed to IP64 specifications for protection against water and dust. The terminals are fully functional in temperatures ranging from -13° to 122°F/-25° to 50°C and can withstand multiple drops of 6ft/1.8m to concrete.

As innovative as it is rugged, the PDT 7500 delivers the sophisticated ergonomic features customers need. Weighing only 21 oz., the terminal is light enough for extended periods of use. The push-button keypad has color-coded keys to facilitate data entry, and the 1/8 VGA screen has a crystal-clear 240 x 160 pixel resolution and a generous 30 character by 20-line display. The display is backlit so it is easily viewed - even in dimly lit areas. Symbol's innovative design includes a reverse grip and hand support that can be used in signature capture, important for proof of delivery and for tracking or tracing inventory, and hazardous/regulated material.

Power and performance for large jobs

The terminals in the PDT 7500 Series are designed to have the power and performance to handle large jobs. The integrated high-speed SE 2200 scan engine includes an advanced scanner for fast 560 scans per second of 1-D and 2-D bar code data capture. The device reads bar-coded shipping manifests, and pallet contents at 15 times the speed of most other scan engines. The conveniently placed scan trigger is easy to turn on and off during single-handed use.

Formidable scanning jobs, complex programs and data-intensive tasks such as inventory tracking or materials management are perfect for the PDT 7500. Within its sealed case are a fast, state-of-the-art, 486-based AMD Elan SC400 microprocessor and a low-power 32-bit single chip/AT-based microcontroller that runs industry-standard MS-DOS applications. Up to 16 MB of RAM and 32 MB of flash memory, among the largest data storage capacities available, assure flawless performance regardless of the job size.

Transmits data anytime, anywhere

The PDT 7500 transmits data on the dock or on the road with either batch processing on RF models that support Spectrum24® wireless LAN technology or Wide Area Networks (WANs). For maximum operating convenience, the high-capacity lithium ion battery operates for an 8-10-hour work shift and signals the operator when it is time for a recharge. The terminal slips into a free-standing or vehicle-mounted cradle for battery charging and data transfer.

The PDT 7500 is backed by a worldwide service repair and support network offered by Symbol Technologies. Symbol systems are critical to your success in data-intensive, time-sensitive environments because our systems help you capture, access and manage information at the point of business activity.

PDT 7500 Portable Data Terminal Specification Highlights

Class PDCT-A1, A2, A2G

Physical Characteristics	
Dimensions:	3.5 in./89mm W; 2.2 in./56mm D; 8.4 in./210mm H
Weight:	Batch (PDCT-A1,A2): 21 oz./588 gm with battery; RF (PDCT-A2G): 23 oz. with battery and PCMCIA LAN card
Laser Source:	Visible Laser Diode at 650-680 nm
Operating Temperature:	-13° to -122°F/-25° to 50°C
Storage Temperature:	-20° to 140°F/-30° to 60°C
Operating Humidity:	5 to 95% relative humidity (noncondensing)
Display:	1/8 VGA transflective LCD, 20 lines x 30 characters, 240 x 160 pixel resolution, controllable backlight
Touch Screen:	Scratch-resistant Mylar overlay
Keyboard:	36-key
Power:	Quick change, rechargeable 7.2V, 1400 mAH smart battery
Control Switches:	Power ON/OFF, contrast, backlight, alpha numeric toggle
Status Indicator Lights:	Wireless operation, good decode, battery level
Performance	
Microprocessor:	AMD Elan SC400, 32-bit Am486 CPU, 33/66 MHz
Operating System:	Microsoft MS-DOS Ver. 6.22
RAM Memory:	2 MB standard for MS-DOS expandable to 16 MB factory configuration
Flash:	2 MB nominal internal flash memory module expandable 32 MB as factory configuration
Scanning Range:	(PDCT A2, A2G only): (Note: Code 3 of 9, medium density (x dim. of 10 mil) Close/Far Range): 8.0"/13.0"
Real-Time Clock:	Time and date stamping under software control; year 2000 compliant
Interfaces:	Infrared port, IrDA V1.0 standard compatible @ 115.2 Kbps for batch communications
RF Data Communications	
Network:	(PDCT A2G only) Spectrum24®
Output Power:	100 mW U.S. and international
Data Rate:	2 Mbps
Spreading Technique:	Frequency hopping
Antenna:	Internal
Range:	Open space: up to 1,000ft./303m; Typical: 180ft. to 250ft./54.5 to 76m
WAN Communications:	GSM, DataTac, MOBITEX and CDPD (optional)
Frequency Range:	Country dependent, typically 2.4 to 2.5 GHz
Peripherals & Accessories	
Scan Engines:	SE 2200 (1-D and 2-D)
PT-400 Portable Printer:	Single-slot communication docking station/battery charger AC adapter kit (includes power supply, line cord and adapter cable)
UBC-2000 4-Slot Universal Battery Charger:	Universal Rechargeable 7.2V, 1600 mAH smart battery
Universal Peripheral Device:	(UPD 1000) Reads and communicates the data in Smart cards, Magnetic Stripe Cards and Data Buttons
Additional Accessories:	Carrying Case, Universal Holster (for right- or left-handed) with adjustable strap clips for belt attachment
Regulatory	
Laser Safety:	CDRH Class II, IEC825-1/EN60825-1 Class II
Drop:	Multiple 6 ft./1.8m drops to concrete
Environmental Sealing:	IP64 (industry standard for dust and water sealing)
ESD:	15kv electrostatic discharge to all surfaces without loss of data
EMI/RFI:	FCC part 15 Class A, EMC Directive, Australian SMA
Electrical Safety:	Certification pending to UL1950, CSA C22.2 No.950, EN60950/IEC950

CN410 CE

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