Intermec PM4i Data Sheet

More information available at POSMicro.com

PM4i

Mid-Range Printer

- **Strong, all-metal construction** and superior throughput for harsh industrial environments

- **Smart Printing capabilities** support stand-alone printer applications, eliminating PC expense and complexity

- **All-in-one, user-selectable printer languages -** Fingerprint/Direct Protocol (DP), IPL, ZSim and DSim - in every printer

- **Secure wireless connectivity:** CCX and WiFi® certified with WPA2

- **Integrated Ethernet,** USB host and device, and serial interface standard

- **Internet Protocol v6** (IPv6) support

- **Interchangeable print head** provides choice of 203, 300 or 406 dpi print resolution

- **RFID option** supports ISO18000 - 6B 6C/ EPC Gen 2

A member of the smartest bar code printer family on the market, the PM4i is flexible and programmable, enabling customers to optimize their printing operations, streamline deployment, and achieve quick return on investment. Built to meet the needs of mission-critical applications, the rugged PM4i delivers advanced, secure connectivity and the latest network protocols, ensuring peace-of-mind today and a reliable, scalable solution for the long haul. The popular PM4i Mid-Range Printer is part of Intermec's complete line of smart, strong and secure industrial printers.

Smart

The PM4i's smart design features support increased productivity in demanding environments. As a Smart Printer, the PM4i can host stand-alone applications, developed through Intermec Fingerprint programming language, that reduce errors and streamline operational processes. Smart Printers can eliminate the PC and control other devices directly (such as scanners, scales, applicators), improving efficiency and decreasing infrastructure costs and complexity.

The PM4i's integrated device management and diagnostic capabilities, provided through Intermec SmartSystems™ and Wavelink Avalanche™, reduce downtime and simplify deployment. With its user-selectable, all-in-one programming languages (Fingerprint, IPL, ZSim, DSim),

the PM4i fits existing IT infrastructures, deploying with drop-in simplicity to Intermec or mixed printer environments. Its secure, industry-standard connectivity options support easy integration and fast deployment.

Strong

The rugged, all-metal PM4i incorporates features that reduce downtime and minimize maintenance costs. Its enhanced self-strip option delivers consistent performance across multiple media types. For precision labeling, its 406 dpi print head delivers exceptional, pinpoint accuracy. Replacing printheads is fast and easy, thanks to the magnetic QuickMount™ printhead design. The PM4i is co-engineered and tested with Intermec labels and other media products, ensuring optimized, superior performance when used with genuine Intermec media.

Secure

Multiple interface options are available, including the highest level of secure wireless connectivity (WPA2). The industry's only printers available with WiFi- and CCX-Certification, Intermec industrial printers help maintain wireless network integrity and reduce configuration time. Every printer ships with Ethernet connectivity, as well as with emerging network protocol IPv6, ensuring long-term, enterprise scalability. Other connectivity options – standard RS232 and USB ports,

Intermec®

and optional parallel, double serial or industrial interfaces – provide additional integration flexibility.

The standard CompactFlash™ memory slot is complemented by new USB host and device support. Handy, inexpensive and PC-compatible, CompactFlash and USB memory technologies provide extra storage for Fingerprint programs, layouts, graphics*, fonts and firmware upgrades. The RFID-enabled PM4i enables companies to create RFID smart labels and drive the latest RFID applications.

* Fingerprint only

Description
Direct thermal and thermal transfer label, ticket and tag printer. Also available with RFID.

Physical Characteristics
LxHxW: 543 x 261 x 298mm (21.38 x10.28 x 11.73 in)
Weight: 13.5 kg (29.76 lbs.)

Print Specifications
Max. Width: 104 mm (4.09 in) at 203 dpi and 406dpi; 105.7 mm (4.16 in) at 300 dpi.
Max. Length: 4095 mm (161.2 in) at 203 dpi; 2730 mm (107.5 in) at 300 dpi. 1016 mm (40 in) at 406 dpi.

RFID Standards & Frequencies
Supports ISO 18000-6B and 18000-6C / EPC Class 1 Generation 2
865-928 MHz radio configured to comply with local UHF RFID regulations including FCC and ETSI. Contact local representative for availability in particular regions.

Print Speed
100 - 200 mm/s (4 - 8 ips) variable (203 dpi)
100 - 150 mm/s (4 - 6 ips) variable (300/406 dpi)

Print Resolution
8 dots/mm (203 dpi)
11.8 dots/mm (300 dpi)
16 dots/mm (406 dpi)

Media
Type: Labels and Tags
Max/Min Width: 114.3 /25.4 mm (4.5 /1 in)
Thickness: 2.5 to 8.7 mil
Configuration: Roll-fed or fanfold
Sensing: Gap, notch, black mark, continuous
Label Roll Max Diameter: 213 mm (8.38 in)
Label Roll Core: 38-76mm (1.5-3 in)

Type: Ribbons
Roll Max Diameter: 82 mm (3.2 in), approx. 450m
Core ID: 25.4 mm (1 in)
Type: Wax, mid-range, resin

Genuine Intermec Media: www.intermec.com/media

Interfaces
Standard:
- Ethernet 10/100 Mbps
- RS-232, up to 115.2 kB/s
Supported Serial Protocols:
- Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, DTR, RTS/CTS
- IPL: XON/XOFF, Intermec Std. Protocol
- USB 2.0
Optional:
- Parallel IEEE 1284
- Industrial Interface (8 digital in/out, 4 analog relays, 1 RS232/422/485 port)
- Dual Serial ports RS-232, RS-422, RS-485 and 20mA Current Loop
Wireless:
- IEEE 802.11 b/g
- Wi-Fi Certified, CCX (Cisco®) version 3 Certified
- WEP, WPA, WPA2, 802.11x (EAP-TTLS, LEAP, PEAP, FAST), 802.11i
- Multiple industrial antenna options for maximized coverage
Supported Protocols:
TCP/IP-suite (TCP, UDP, ICMP, IGMP, etc.), LPR/LPD, FTP, BOOTP, DHCP, HTTP, SNMPv3, SMTP.SNMP-MIB II supported (over UDP/IP), private enterprise MIB included. Supports IPv4 and IPv6.

Software
Printer Command Languages:
- IPL
- Fingerprint/Direct Protocol
- ZSim (ZPL)
- DSim (DPL)
- XML enabled for SAP® AII and Oracle® WMS
Applications / Drivers:
- InterDriver™ Windows printer driver
- Intermec label design and print package
- PrintSet for printer configuration

Development Software:
- Intermec Fingerprint Application Builder™ (IFAB) (RFID libraries included)
Device Management Support:
- SmartSystems™
- Wavelink Avalanche™

Bar Code Symbologies
All major 1D and 2D symbologies are supported.

Standards Supported
UPC/EAN Shipping Container; UCC/EAN 128 Serial Shipping Container; MH10.8 Shipping Label; AIAG (shipping parts label); OGMARS; POSTNET; HIBCC; ISBT 128; GM1724; UPS shipping label; Global Transport label

Fonts
Scalable fonts including CP1252
Font cache for maximum performance
Non-Latin fonts and legacy fonts available

Graphics
Supports PCX file format. (Fingerprint Only)
Other formats supported with Label Generation Tools

Memory
Standard: 16MB Flash memory, 32MB SDRAM, 1 Compact Flash slot
Available: 1GB CompactFlash memory, multi-GB USB memory device (FAT16/FAT32 USB drivers supported)

Keypad Control Panel
Interactive numeric keypad control panel

Power Supply
AC Voltage: 90 to 265 VAC, 45 to 65Hz
PFC Regulation: IEC 61000-3-2
Power Consumption: Standby 15W; Peak 300W

Operating Environment
Ambient Operating Temperature:
+5°C to +40°C (+41°F to +104°F)
Storage Temperature: -20°C to +70°C (-4°F to +152°F)
Humidity: 20 to 80% non-condensing

Regulatory Approvals
CE (EN55022 Class A), FCC Class A, UL/cUL, C-Tick

Options
RFID, integral self-strip unit with liner takeup, Label Taken Sensor (LTS), Compact Flash (CF) memory, various international double byte fonts, alphanumeric keyboard*, parallel interface board, additional serial interface board*, industrial interface board*, applicator interface board*, real time clock, media supply hub, cutter, label low sensor

*Not applicable when using IPL firmware