Product profile

PX Series

High Performance Printers

- **Strong, all-metal construction** and superior throughput for 24x7 printing in harsh industrial environments
- **Ideal for high volume & compliance applications -** the PX4i prints at 406 dpi without loss of speed
- **Modular design** facilitates integration into automated labeling applications
- **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 print resolution
- **RFID option** supports ISO18000 - 6B 6C/ EPC Gen 2

Intermec®

Members of the smartest bar code printer family on the market, the PX4i and PX6i are flexible and programmable, enabling customers to optimize their printing operations, streamline deployment, and achieve quick return on investment. Built to meet the needs of round-the-clock, mission-critical applications, the rugged PX printers deliver advanced connectivity and network protocols, ensuring peace-of-mind today and a reliable, scalable solution for the long haul. The PX4i and PX6i High Performance Printers are part of Intermec's complete line of smart, strong and secure industrial printers.

Smart

The PX printers' smart design features support increased productivity in demanding environments. As Smart Printers, they 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 printers' device management and diagnostic capabilities, provided through Intermec SmartSystems™ and Wavelink Avalanche™, reduce downtime and simplify deployment. With user-selectable, all-in-one programming languages (Fingerprint, IPL, ZSim, DSim), the PX printers fit with drop-in simplicity to Intermec or mixed printer environments. Their modular design facilitates integration into automated labeling applications and industry-standard connectivity options support fast deployment.

Strong

The rugged, all-metal PX printers deliver outstanding performance – up to 12 inches per second from first label to last - and incorporate features that reduce downtime and minimize maintenance costs. Both versions are available with 203 or 300-dpi resolution, and the PX4i also offers 406 dpi, for precision labeling without any loss of speed. This is ideal for compliance labeling applications with variable data requiring immediate results.

An enhanced self-strip option delivers consistent performance across multiple media types. Replacing printheads is fast and easy, thanks to the magnetic QuickMount™ printhead design. The PX Series printers are co-engineered and tested with Intermec labels and other media products, optimizing performance when used with genuine Intermec media.

Secure

Multiple interface options are available, including the highest level of secure wireless connectivity (WPA2). 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.

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

* Fingerprint only

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

Physical Characteristics
LxHxW:
PX4i: 482 x 238 x 275 mm (19.0 x 9.4 x 10.8 in)
PX6i: 482 x 238 x335 mm (19.0 x 9.4 x 13.2 in)
Weight:
PX4i: 12.85 kg (28.4 lbs)
PX6i: 14.80 kg (32.6 lbs)

Print Specifications
Max. Print Width:
PX4i: 112 (DT)/110 (TT) mm (4.4/4.3 in)
PX6i: 167.4 mm (6.59 in)
Max. Length:
4095 mm (161 in) at 203 dpi
2775 mm (109 in) at 300 dpi
1016 mm (40 in) at 406 dpi

RFID Standards & Frequencies
Supports ISO 18000-6B and 18000-6C / EPC 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 region.

Print Speed
PX4i: 100 - 300 mm/s (4 - 12 ips) for 203/300dpi
100 – 250 mm/s (4 – 10 ips) for 406 dpi
PX6i: 100 - 225 mm/s (4 - 9 ips) for 203/300dpi

Media
Type: Labels & Tags
Max/Min Width:
PX4i: 120/ 25.4mm (4.72/ 1 in)
PX6i: 170/ 76 mm (6.69/ 3 in)
Thickness: 2.4 to 10.0 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: 80 mm (3.15in), approx. 450m
Core ID: 25.4 mm (1")
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, Applicator Interface

Wireless:
- IEEE 802.11 b/g
- Wi-Fi Certified, Cisco® Compatible (CCX) 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 graphic 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 20W; Continuous average 125W; Peak 400W

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: 10 to 90% 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

North America Corporate Headquarters
6001 36th Avenue West
Everett, Washington 98203
Phone: (425) 348-2600
Fax: (425) 355-9551

North Latin America Headquarters Office
Mexico
Phone: +52 55 52-41-48-00
Fax: +52 55 52-11-81-21

South Latin America Headquarters Office
Brazil
Phone: +55 11 5502.6770
Fax: +55 11 5502.6780

Europe/Middle East & Africa Headquarters Office
Reading, United Kingdom
Phone: +44 118 923 0800
Fax: +44 118 923 0801

Asia Pacific Headquarters Office
Singapore
Phone: +65 6303 2100
Fax: +65 6303 2199

Internet
www.intermec.com
Worldwide Locations:
www.intermec.com/locations

Sales
Toll Free NA: (800) 934-3163
Toll in NA: (425) 348-2726
Freephone ROW:
00 800 4488 8844
Toll ROW: +44 134 435 0296

OEM Sales
Phone: (425) 348-2762

Media Sales
Phone: (513) 874-5882

Customer Service and Support
Toll Free NA: (800) 755-5505
Toll in NA: (425) 356-1799

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