

# 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

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 x 335 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

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#### 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](http://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® All and Oracle® WMS

##### Applications / Drivers:

- InterDriver™ Windows printer driver
- Intermec label design and print package
- PrintSet for printer configuration

#### Internet

[www.intermec.com](http://www.intermec.com)  
Worldwide Locations:  
[www.intermec.com/locations](http://www.intermec.com/locations)

#### Sales

Toll Free NA: (800) 934-3163  
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#### 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

#### Development Software:

- Intermec Fingerprint Application Builder™ (IFAB) (RFID libraries included)

#### Device Management Support:

- SmartSystems™
- Wavelink Avalanche™

#### Bar Code Symbolologies

All major 1D and 2D symbolologies 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



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