PM4i

RFID Printer

- **Supports UHF Gen 2**

- **Protects customer investment with unique product features to support growth of future RFID standards**

- **First RFID printer to encode frequency agile UHF tags**

- **Simultaneously print barcodes, human readable text, and graphics**

- **Supports stand-alone printer applications**

- **Integrated EasyLAN™ Ethernet, USB, and serial interface standard**

- **Optional EasyLAN™ Wireless interface**

The multi-function PM4i printer gives you the reliability, ruggedness and performance you have come to expect in a barcode printer from Intermec, along with the latest RFID technology in the same box.

With the PM4i, companies can create RFID smart labels to drive RFID applications. By using frequency agile RFID tags, the PM4i can simultaneously encode and print labels that can be used worldwide, thus enabling the tag to be read via multiple frequencies, dependant on regional standards.

The PM4i printer can also act as a "smart client" executing user-defined programs for completely stand-alone printer applications. This means your PM4i printer can eliminate the personal computer, operate additional hardware (e.g. scanners, other printers, conveyors), access information from network host, and retain

the ability to change with the application for additional functionality.

Integrated EasyLAN™ Ethernet, USB, and serial are standard interfaces with the PM4i printer. Users also have the option to add additional EasyLAN Wireless and / or industrial interface boards. The EasyLAN Wireless interface uses an integrated standard 802.11b radio. This radio provides 128-bit WEP encryption of the information relayed through the network. Intermec's wired and wireless technology ensures secure printing and network infrastructure for all environments.

The PM4i printer integrates into industrial manufacturing, warehouse, and logistics applications ensuring all items are labeled and tracked via RFID for quick and accurate data collection throughout the supply chain.

Intermec®
by Honeywell

Application
RFID Enabled Direct Thermal and Thermal Transfer label, ticket and tag printer.

Physical Characteristics
Length: 54.3 cm (21.38 in)
Height: 26.1 cm (10.28 in)
Width: 29.8 cm (11.73 in)
Weight: 13.5 kg (29.76 lbs.)

RFID Standards Supported
• ISO 18000-6B (FCC & ETSI)
• EPC Generation 2 / ISO 18000-6C (FCC & ETSI)

Print Specifications
Max. Width: 104 mm (4.09 in) at 203 dpi; 105.7 mm (4.16 in) at 300 dpi.
Max. Length w/ std memory: 2520 mm (99.2 in) at 203 dpi; 1092 mm (43.0 in) at 300 dpi.
Max length w/ 16MB SDRAM: 4095 mm (161.2 in) at 203 dpi; 2730 mm (107.5 in) at 300 dpi.

Print Speed
Up to 76 labels per minute. 101x152mm (4x6 in) GM1724 label.

Print Direction
Prints smooth text, any size bar codes and graphics in all four orthogonal directions.

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

Label/Ticket/Tag
Max. Width: 114.3 mm (4.5 in)
Min. Width: 25.4 mm (1 in)
Thickness: 2.5 to 7 mil
Style: Roll-fed, die-cut, continuous or fanfold labels, tags or tickets
Label Roll max diameter: 213 mm (8.38 in)
Label Roll Core: 38-76 mm (1.5-3 in)
Media Type: Thermal Transfer, Direct Thermal

Ribbon Roll
Ribbon roll max diameter: 83 mm (3.27 in) or approx. 450 m (1475 ft) of ribbon
Ribbon Roll Core: 25 mm (1 in)
Ribbon Type: Wax, wax/resin, resin

Label Specifications
Tag thickness: Less than .25 mil (.010 in)
Tag insert size limits: 13 mm x 70 mm (.5 in x 2.75 in); 95 mm x 95 mm (3.75 in x 3.75 in)
Tag placement: Between label and backing paper, location within label customized for each application.
Tag orientation: Perpendicular to feed direction.

Interface Standard
• RS-232, up to 115.2 kB/s
• USB 1.1
• EasyLAN Internal Ethernet 100/10BaseT
• I2C-bus for cutter
• Wand interface for EasySet™ System
Optional
• EasyLAN Wireless, internal 802.11b Wireless Ethernet
• Parallel IEEE 1284

Software
Available printer command languages:
• IPL
• Fingerprint/Direct Protocol
Software Development Kit: A custom Fingerprint program to interface with RFID module and host system is easily generated through the use of Intermec Fingerprint ApplicationBuilder (IFAB), a software development kit for Fingerprint with RFID libraries.

Bar Code Symbologies
1-dimensional: Code 2 of 5, Codabar, Code 11, Code 39, Code 93, Code 128, Interleaved 2 of 5, Straight 2 of 5, Matrix 2 of 5, Postnet, Code One, UPC/EAN, JIS-ITF
2-dimensional: Code 16K, Code 49, DataMatrix, PDF417, QR Code, MicroPDF417, MaxiCode, Plessey, MSI

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

Characters Sets
Fingerprint/DP: 15 TrueType™ fonts including 12 UNICODE (1 WGL4), 1 symbol, 1 OCR-A, 1 OCR-B. All fonts are scalable. Font cache for maximum performance. ATF font support.
IPL firmware: 3 TrueType fonts and 20 bitmap fonts. Non-Latin fonts are available as options.

Graphics
Supports PCX file format.

Memory
Standard: SRAM 8 MB, Flash 4 MB
Optional: SRAM 16 MB, Flash 16 MB, 1 GB Compact Flash Memory

Protocol
Fingerprint/Direct Protocol:
XON/XOFF, ENQ/ACK, DTR, RTS/CTS
IPL: XON/XOFF, Intermec Std. Protocol

Display
Back-lit LCD for 2x16 characters and 3 LED indicator lamps

Keypad Control Panel
• Full keypad control panel (Fingerprint/DP)
• Reduced keypad control panel (IPL)

Power Supply
115/230VAC auto-switch w/PFC
Voltage range: 90-264VAC.
Frequency Range: 45-65 MHz

Operating Environment
Temperature: +5°- 40°C (+40°- 104°F)
Humidity: 20-80% RH non-condensing
Noise: 50 dB (printing), no noise standby

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

Options
Integral Self-Strip unit with Liner Takeup, Label Taken Sensor (LTS), Compact Flash (CF) memory, Flash and SDRAM SIMM memory, Various International Double Byte Fonts, EasySet Bar Code Wand*, External RS-232C Alphanumeric Keyboard*, Parallel Interface Board, Real Time Clock*, Media Supply Hub, Cutter, Label Low Sensor

*Not applicable when using IPL firmware

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