



PEX-1001 Series Print Engine

Igniting Output with An Enterprise-Level Print Engine

The innovative PEX-1001 Series print engine incorporates a robust die-cast construction designed for years of reliability, ease of use, and cost-conscious serviceability. The PEX-1001 Series combines a precision print mechanism with high-performance electronics to produce labels at up to 18-inches per second, superior print speed in its class.

Designed for ease of integration, the PEX-1001 Series features a bolt-compatible construction with a commonly used GPIO interface compatible with mainstream applicators. Capable of seamless connectivity, the PEX-1001 series supports 802.11 a/b/g/n/ac Wi-Fi and Ethernet enabling dynamic remote printer management powered by SOTI Connect and TSC Console that turns the barcode label printer into a connected network. Ideal for manufacturing and logistic applications where high-speed and high-demand label printing is required.

Key Features



Sophisticated TSC Sense Care

- Auto scans and detects printhead bad dots during printing
- Support both top and bottom black mark sensors



Multi-Connectivity

- GPIO: Supports mainstream applicators and emulations
- Wi-Fi: Supports 802.11 a/b/g/n/ac with Bluetooth 4.2 combo module



Ease of Maintenance

- Drawer design in rear for quick access to maintenance parts
- Modular media drive system design for quick and easy of replacement



Dynamic Remote Printer Management

- Supports SOTI Connect through either Ethernet or Wi-Fi
- Powerful TSC Console for printer management



Rugged Design

- Durable and reliable, delivers outstanding print quality
- State of the art, robust peel-off capability



High-Performance

- High-speed printing up to 18 ips
- High-precision label registration supports labels as small as 5 mm high

Applications



Manufacturing

- Automotive
- Food and Beverage



Transportation and Logistics

- Pallet Labeling
- Carton Shipping



Healthcare

- Pharmaceutical Labeling

PEX-1001 Series | Data Sheet

Model	PEX-1121	PEX-1221	PEX-1131	PEX-1231	PEX-1161	PEX-1261
Resolution	8 dots/mm (203 DPI)		12 dots/mm (300 DPI)		24 dots/mm (600 DPI)	
Printing method	Thermal Transfer and Direct Thermal					
Max. print speed	457mm (18")/second		356 mm (14")/second		152 mm (6")/second	
Max. print width	104 mm (4.09")					
Max. print length	25,400 mm (1000")		11,430 mm (450")		2540 mm (100")	
Enclosure	Die-cast based print mechanism					
Physical dimension	245 mm (W) x 300 mm (H) x 390 mm (D) 9.65" (W) x 11.81" (H) x 15.35" (D)					
Weight	13 kg (28.66 lbs)					
Ribbon	600 m long, max. O.D. 90 mm, 1-in. core (ink coated outside or inside)					
Ribbon width	25.4 mm ~ 114.3 mm (1" ~ 4.5")					
Processor	32-bit RISC CPU					
Memory	<ul style="list-style-type: none"> • 512MB Flash memory • 512MB SDRAM • USB device memory (FAT32) • Micro SD card reader for memory expansion, up to 32GB 					
Interface	<ul style="list-style-type: none"> • RS-232 • USB 2.0 • Internal Ethernet, 10/100 Mbps • USB host * 1 (front side), connecting USB storage device • GPIO (DB15F) + Centronics • GPIO (DB25F)(dealer option) • 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (dealer option) 					
Power	<ul style="list-style-type: none"> • Auto sensing power supply (20% print ratio) • Input: AC 100-240V, 4-2A, 50-60Hz • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W 					
LED/LCD	<ul style="list-style-type: none"> • 3.5" color TFT display, 320 x 240 pixel • 1 status indicator 					
Operation switch, button	6 buttons					
Sensors	<ul style="list-style-type: none"> • Gap transmissive sensor (Position adjustable, 15mm ~ 98mm) • Black mark reflective sensor (Bottom or Top black mark sensor switchable and position adjustable) • Ribbon end sensor (transmissive) • Ribbon encoder sensor • Head open sensor • Media cover open sensor 					
Real time clock	Standard					
Internal font	<ul style="list-style-type: none"> • 8 alpha-numeric bitmap fonts • Monotype Imaging® True Type font engine with one CG Triumvirate Bold Condensed scalable font 					
Bar code	<ul style="list-style-type: none"> • 1D bar code Code 11, Code 39, Code 49, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Standard 2 of 5, Industrial 2 of 5, Interleave 2 of 5, EAN-8, EAN-13, EAN-14, EAN-128, ITF14, UPC-A, UPC-E, EAN and UPC 2 (5) digits add-on, MSI, PLESSEY, PLANET, POSTNET, RSS-Stacked, GS1 DataBar, China Post, Telepen, LOGMARS • 2D bar code PDF-417, Micro PDF 417, Maxicode, DataMatrix, QR code, Aztec, TLC 39, RSS 					
Font & bar code rotation	0, 90, 180, 270 degree					
Printer language	TSPL-EZD (Compatible to EPL, ZPL, ZPL II, DPL)					
Media type	Continuous, die-cut, black mark, fan-fold, notch (outside wound)					
Media width	20 mm ~ 114 mm (0.8" ~ 4.5")					
Media thickness	0.076 ~ 0.305 mm (2.99 ~ 12.01 mil)					
Label length	5 ~ 25,400 mm (0.2" ~ 1,000")		5 ~ 11,430 mm (0.2" ~ 450")		5 ~ 2,540 mm (0.2" ~ 100")	
Environment condition	Operation: 0 ~ 40°C (32~ 104°F), 25-85% non-condensing Storage: -40 ~ 60 °C (-40 ~ 140°F), 10-90% non-condensing					
Safety regulation	BSMI, CB, CCC, CE Class A, EAC, FCC Class A, BIS, KC, cTUVus, Mexico CoC					
Accessories	<ul style="list-style-type: none"> • Windows labeling software CD disk • Quick start guide • USB cable • Power cord 					
Dealer option	<ul style="list-style-type: none"> • Internal 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module • GPIO (DB25F) 					

Product models and specifications are subject to change without notice.
Printing performance may vary depending on ribbon and media combination used.



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