



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					
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.



CORPORATE HEADQUARTERS

TSC Auto ID Technology Co., Ltd.
Tel: +886 2 2218 6789
E-mail: apac_sales@tscprinters.com

LI ZE PLANT

TSC Auto ID Technology Co., Ltd.
Tel: +886 3 990 6677
E-mail: apac_sales@tscprinters.com

AMERICAS

TSC Auto ID Technology America Inc.
Tel: +1 657 258 0808
E-mail: americas_sales@tscprinters.com

MEXICO

TSC Mexico Representative Office
Tel: +1 52 (33) 3673 1406
E-mail: americas_sales@tscprinters.com

BRAZIL

TSC Brazil Representative Office
Tel: +55 (11) 3554 7225
E-mail: americas_sales@tscprinters.com

EMEA

TSC Auto ID Technology EMEA GmbH
Tel: +49 (0) 8106 37979 000
E-mail: emea_sales@tscprinters.com

RUSSIA

TSC Auto ID Technology EMEA GmbH
Tel: +7 495 249 9017
E-mail: emea_sales@tscprinters.com

Middle East

TSC Auto ID Technology ME Ltd, FZE
Tel: +971 4 2533 069
E-mail: emea_sales@tscprinters.com

ASIA PACIFIC

TSC Auto ID Technology Co., Ltd.
Tel: +886 2 2218 6789
E-mail: apac_sales@tscprinters.com

INDIA

TSC India Distributor's Office
Tel: +91 2267 082 465
E-mail: apac_sales@tscprinters.com

CHINA

Tianjin TSC Auto ID Technology Co., Ltd.
Tel: +86 22 5981 6661
E-mail: apac_sales@tscprinters.com

KOREA

TSC Korea Representative Office
Tel: +82 2 852 3322
E-mail: apac_sales@tscprinters.com