



PEX-2000 Series Print Engine

Powerful Processing for Automatic Labeling

The 4-inch and 6-inch PEX-2000 Print Engines easily integrate into any label applicator for smooth daily operations, reducing integration effort and speeding up time-to-market.

The PEX-2000 is highly compatible with hardware and software for easy integration. It supports DB15 and DB25 interfaces and major printer brands' GPIO emulations. The customizable printer language firmware supports major printer languages so template commands and print files can remain the same.

The PEX-2000 is reliable for 24/7 operations, compact to meet space constraints, and is easy to service. From its angle-adjustable peel-off module, advanced sensor design, durable TPH, to optional RFID and Ribbon Saver, the PEX-2000 provides precise functionality and future-proof technology. It delivers high imprint accuracy for labels with a minimum of 5mm length and printing deviation within ± 0.4 mm. It's also compatible with the remote printer management tools, TSC Console and SOTI Connect.

Key Features



Easy Label Applicator Integration

- Compact and mounts in any orientation for label applicators
- Supports DB15 & DB25 interface and GPIO emulations
- Supports major printer languages with customizable firmware



Advanced Performance for Diverse Applications

- Precise accuracy with printing deviation within ± 0.4 mm for small labels
- Peel-off works in angles of minus 18 to minus 3 degrees
- High print speeds up to 18 ips
- Top black mark sensor for preprinted labels
- Optional RFID
- Durable thermal printhead (TPH)
- Optional durable patented Ribbon Saver reduces environmental waste



Reliable Design to Maximize Uptime

- Robust metal chassis withstands harsh environments
- Mean time between failures (MTBF) up to 22,000 hours
- Magnetic lock tightly seals the media door



Designed for Smooth Operations

- Simplified media handling and calibration, plus easier sensor cleaning
- Wide media handling space for easier installation



Remotely Manage Print Engines

- Monitor with SOTI Connect's central dashboard
- Use TSC Console for deploying, monitoring, and troubleshooting

Applications



Transportation and Logistics

- Pallet Labeling
- Carton Shipping



Healthcare

- Pharmaceutical Labeling



Manufacturing

- Food and Beverage

PEX-2000 Series 4-inch | Datasheet

Model (Left Hand & Right Hand)	PEX-2240L PEX-2240R	PEX-2340L PEX-2340R	PEX-2640L PEX-2640R
Print 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	356mm (14")/second	152mm (6")/second
Max. Print Width	104mm (4.09")		
Max. Print Length	25,400mm (1000")	11,430mm (450")	2,540mm (100")
Enclosure	Die-cast based print mechanism		
Physical Dimension	245mm (W) x 300mm (H) x 390mm (D) 9.65" (W) x 11.81" (H) x 15.35" (D)		
Weight	Net weight: 12.7kg (30lbs) Gross weight: 15.6kg (34.39lbs)		
Carton Dimension	401mm (W) x 365mm (H) x 518mm (D) 15.79" (W) x 14.37" (H) x 20.39" (D)		
Ribbon Capacity	600m long, max. O.D. 90mm, 1-in. core (ink coated outside or inside)		
Ribbon Width	25.4mm ~ 114.3mm (1"~4.5")		
Processor	32-bit RISC high performance processor (BGA 536Mhz)		
Memory	<ul style="list-style-type: none"> • 512MB Flash memory • 512MB DDR2 RAM memory • 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*2 (front and rear side), connecting USB storage device • GPIO (DB15F) + Centronics 		
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 		
Display	<ul style="list-style-type: none"> • Multi-language selectable • 3.5" IPS QVGA color display • 1 status indicator 		
Operation Switch, Button	6 operation buttons (Menu, Pause/Feed, Up, Down, Left, Right)		
Sensors	<ul style="list-style-type: none"> • Gap transmissive sensor (position adjustable, 1mm ~ 98mm) • Black mark reflective sensor (bottom or top black mark sensor switchable and position adjustable, 5mm ~ 92mm) • Ribbon end sensor (transmissive) • Ribbon encoder sensor • Head open sensor • Media cover open sensor • Label holder cover open sensor 		
Internal Font	<ul style="list-style-type: none"> • 8 alpha-numeric bitmap fonts • One Monotype Imaging® CG Triumvirate Bold Condensed scalable font • Built-in Monotype True Type Font engine 		
Barcode	<ul style="list-style-type: none"> • 1D barcode 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 barcode PDF-417, Micro PDF 417, Maxicode, DataMatrix, QR code, Aztec, TLC 39, RSS 		
Font & Barcode Rotation	0, 90, 180, 270 degree		
Printer Language	TSPL-EZD (compatible to EPL, ZPL, ZPL II, DPL); Option for TSPL-EZS (compatible to EPL, ZPL, ZPL II, SBPL)		
Media Type	Continuous, die-cut, black mark, fan-fold, notch		
Media Wound Type	Outside wound		
Media Width	16mm ~ 118mm (0.63" ~ 4.64")		
Media Thickness	<ul style="list-style-type: none"> • Standard (Default): 0.076mm ~ 0.305mm (2.99mil ~ 12.01mil) • RFID tag: 0.076mm ~ 1.2mm (2.99 mil ~ 47.2mil, lift up the front gap sensor wall) • Ribbon saver mode: 0.076mm ~ 0.305mm (2.99mil ~ 12.01mil) 		
Label Length (Peel-off Mode)	<ul style="list-style-type: none"> • Standard mode: 12.7mm ~ 152mm (0.5" ~ 6") • Small label mode: 5mm ~ 12.7mm (0.2" ~ 0.5", mode switchable on the display) 		
RFID	<ul style="list-style-type: none"> • RAIN UHF Passive (GS1 EPC Gen2 v2/ISO 18000-63) • Fixed position antenna standard • Minimum label/ Tag pitch 0.625" (15.9mm) 		
RTC and Buzzer	Standard		
Environment Condition	<ul style="list-style-type: none"> • Operation: -5 ~ 45°C (23 ~ 113°F), 25 ~ 85% non-condensing • Storage: -40 ~ 60 °C (-40 ~ 140°F), 10 ~ 90% non-condensing 		
Accessories	<ul style="list-style-type: none"> • Quick start guide • USB port cable • Power cord 		
Factory Option	Internal Bluetooth 5.0 MFI		
Dealer Option	<ul style="list-style-type: none"> • Wi-Fi 802.11a/b/g/n/ac with Bluetooth 4.2 combo module • GPIO (DB25F) • UHF RFID • Ribbon saver • Internal Bluetooth 		
Safety Regulation	BSMI, CB, CCC, CE Class A, UKCA, RCM Class A, EAC, IC, FCC Class A, BIS, KC, cTUVus		



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: +7 495 646 3538
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 2249 679 315
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

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Printing performance may vary depending on ribbon and media combination used.



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