

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 ±0.4mm. 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 ±0.4mm 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
- Effortless printhead removal and replacement
- Rear chassis is compact and makes component replacement easy

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

TSC PRINTRONIX AUTO ID

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	• 512MB Flash memory • 512MB DDR2 RAM memory • USB device memory (FAT32) • Micro SD card reader for memory expansion, up to 32GB		
Interface	• 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	• 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	• 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	• 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	• 8 alpha-numeric bitmap fonts • One Monotype Imaging® CG Triumvirate Bold Condensed scalable font • Built-in Monotype True Type Font engine		
Barcode	• 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	• 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)	• Standard mode: 12.7mm ~ 152mm (0.5" ~ 6") • Small label mode: 5mm ~ 12.7mm (0.2" ~ 0.5", mode switchable on the display)		
RFID	• 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	• Operation: -5 ~ 45°C (23 ~ 113°F), 25 ~ 85% non-condensing • Storage: -40 ~ 60 °C (-40 ~ 140°F), 10 ~ 90% non-condensing		
Accessories	• Quick start guide • USB port cable • Power cord		
Factory Option	Internal Bluetooth 5.0 MFi		
Dealer Option	• 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		

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: +7 495 646 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

SOTI CONNECT | Bluetooth | Made for iPhone | iPad | iPod

TSC® is a trademark of TSC Auto ID Technology Co., Ltd.
TSC Auto ID Technology Co., Ltd. is an ISO 9001/14001 registered company.
© 2023 TSC Auto ID Technology Co., Ltd.

20230614

TSC Printronix Auto ID Training Academy

Service and Maintenance

TSC PRINTRONIX AUTO ID

TSC Printronix Auto ID tscprinters.com

PEX-2000 Series 6-inch | Datasheet

Printer Model (Left Hand & Right Hand)	PEX-2260L PEX-2260R	PEX-2360L PEX-2360R
Print Resolution	8 dots/mm (203 dpi)	12 dots/mm (300 dpi)
Printing Method	Thermal transfer and direct thermal	
Max. Print Speed	356mm (14")/second	305mm (12")/second
Max. Print Width	168 mm (6.61")	
Max. Print Length	14,732mm (580")	6,604mm (260")
Enclosure	Die-cast based print mechanism	
Physical Dimension	245mm (W) x 300mm (H) x 450mm (D) 9.65" (W) x 11.81" (H) x 17.71" (D)	
Weight	Net weight: 14.35kg (31.64lbs) Gross weight: 17.35kg (38.25lbs)	
Carton Dimension	401mm (W) x 365mm (H) x 573mm (D) 15.79" (W) x 14.37" (H) x 22.56" (D)	
Ribbon Capacity	600m long, max. O.D. 90mm, 1-in. core (ink coated outside or inside)	
Ribbon Width	76mm ~ 180mm (3" ~ 7.1")	
Processor	32-bit RISC high performance processor (BGA 536Mhz)	
Memory	• 512MB Flash memory • 512MB DDR2 RAM memory • USB device memory (FAT32) • Micro SD card reader for memory expansion, up to 32GB	
Interface	• 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	• 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	• 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	• 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	• 8 alpha-numeric bitmap fonts • One Monotype Imaging® CG Triumvirate Bold Condensed scalable font • Built-in Monotype True Type Font engine	
Barcode	• 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	50.8mm ~ 180mm (2" ~ 7.09")	
Media Thickness	• 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)	25.4mm ~ 152mm (1" ~ 6")	
RFID	• 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	• Operation: -5 ~ 45°C (23~ 113°F), 25~85% non-condensing • Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~90% non-condensing	
Accessories	• Quick start guide • USB port cable • Power cord	
Factory Option	Internal Bluetooth 5.0 MFi	
Dealer Option	• 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	

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: +7 495 646 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

SOTI CONNECT | Bluetooth | Made for iPhone | iPad | iPod

TSC® is a trademark of TSC Auto ID Technology Co., Ltd.
TSC Auto ID Technology Co., Ltd. is an ISO 9001/14001 registered company.
© 2023 TSC Auto ID Technology Co., Ltd.
20230614

TSC Printronix Auto ID Training Academy

Service and Maintenance

TSC PRINTRONIX AUTO ID

TSC Printronix Auto ID tscprinters.com