



# 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  $\pm 0.4$ 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 customisable firmware



#### Advanced Performance for Diverse Applications

- Precise accuracy with printing deviation within  $\pm 0.4$ 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 Maximise 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
<b>Print Resolution</b>	8 dots/mm (203 dpi)	12 dots/mm (300 dpi)	24 dots/mm (600 dpi)
<b>Printing Method</b>	Thermal transfer and direct thermal		
<b>Max. Print Speed</b>	457mm (18")/second	356mm (14")/second	152mm (6")/second
<b>Max. Print Width</b>	104mm (4.09")		
<b>Max. Print Length</b>	25,400mm (1000")	11,430mm (450")	2,540mm (100")
<b>Enclosure</b>	Die-cast based print mechanism		
<b>Physical Dimension</b>	245mm (W) x 300mm (H) x 390mm (D) 9.65" (W) x 11.81" (H) x 15.35" (D)		
<b>Weight</b>	Net weight: 12.7kg (30lbs) Gross weight: 15.6kg (34.39lbs)		
<b>Carton Dimension</b>	401mm (W) x 365mm (H) x 518mm (D) 15.79" (W) x 14.37" (H) x 20.39" (D)		
<b>Ribbon Capacity</b>	600m long, max. O.D. 90mm, 1-in. core (ink coated outside or inside)		
<b>Ribbon Width</b>	25.4mm ~ 114.3mm (1"~4.5")		
<b>Processor</b>	32-bit RISC high performance processor (BGA 536Mhz)		
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 512MB Flash memory</li> <li>• 512MB DDR2 RAM memory</li> <li>• USB device memory (FAT32)</li> <li>• Micro SD card reader for memory expansion, up to 32GB</li> </ul>		
<b>Interface</b>	<ul style="list-style-type: none"> <li>• RS-232</li> <li>• USB 2.0</li> <li>• Internal Ethernet 10/100 Mbps</li> <li>• USB host*2 (front and rear side), connecting USB storage device</li> <li>• GPIO (DB15F) + Centronics</li> </ul>		
<b>Power</b>	<ul style="list-style-type: none"> <li>• Auto sensing power supply (20% print ratio)</li> <li>• Input: AC 100-240V, 4-2A, 50-60Hz</li> <li>• Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W</li> </ul>		
<b>Display</b>	<ul style="list-style-type: none"> <li>• Multi-language selectable</li> <li>• 3.5" IPS QVGA colour display</li> <li>• 1 status indicator</li> </ul>		
<b>Operation Switch, Button</b>	6 operation buttons (Menu, Pause/Feed, Up, Down, Left, Right)		
<b>Sensors</b>	<ul style="list-style-type: none"> <li>• Gap transmissive sensor (position adjustable, 1mm ~ 98mm)</li> <li>• Black mark reflective sensor (bottom or top black mark sensor switchable and position adjustable, 5mm ~ 92mm)</li> <li>• Ribbon end sensor (transmissive)</li> <li>• Ribbon encoder sensor</li> <li>• Head open sensor</li> <li>• Media cover open sensor</li> <li>• Label holder cover open sensor</li> </ul>		
<b>Internal Font</b>	<ul style="list-style-type: none"> <li>• 8 alpha-numeric bitmap fonts</li> <li>• One Monotype Imaging® CG Triumvirate Bold Condensed scalable font</li> <li>• Built-in Monotype True Type Font engine</li> </ul>		
<b>Barcode</b>	<ul style="list-style-type: none"> <li>• 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</li> <li>• 2D barcode PDF-417, Micro PDF 417, Maxicode, DataMatrix, QR code, Aztec, TLC 39, RSS</li> </ul>		
<b>Font &amp; Barcode Rotation</b>	0, 90, 180, 270 degree		
<b>Printer Language</b>	TSPL-EZD (compatible to EPL, ZPL, ZPL II, DPL); Option for TSPL-EZS (compatible to EPL, ZPL, ZPL II, SBPL)		
<b>Media Type</b>	Continuous, die-cut, black mark, fan-fold, notch		
<b>Media Wound Type</b>	Outside wound		
<b>Media Width</b>	16mm ~ 118mm (0.63" ~ 4.64")		
<b>Media Thickness</b>	<ul style="list-style-type: none"> <li>• Standard (Default): 0.076mm ~ 0.305mm (2.99mil ~ 12.01mil)</li> <li>• RFID tag: 0.076mm ~ 1.2mm (2.99 mil ~ 47.2mil, lift up the front gap sensor wall)</li> <li>• Ribbon saver mode: 0.076mm ~ 0.305mm (2.99mil ~ 12.01mil)</li> </ul>		
<b>Label Length (Peel-off Mode)</b>	<ul style="list-style-type: none"> <li>• Standard mode: 12.7mm ~ 152mm (0.5" ~ 6")</li> <li>• Small label mode: 5mm ~ 12.7mm (0.2" ~ 0.5", mode switchable on the display)</li> </ul>		
<b>RFID</b>	<ul style="list-style-type: none"> <li>• RAIN UHF Passive (GS1 EPC Gen2 v2/ISO 18000-63)</li> <li>• Fixed position antenna standard</li> <li>• Minimum label/ Tag pitch 0.625" (15.9mm)</li> </ul>		
<b>RTC and Buzzer</b>	Standard		
<b>Environment Condition</b>	<ul style="list-style-type: none"> <li>• Operation: -5 ~ 45°C (23 ~ 113°F), 25 ~ 85% non-condensing</li> <li>• Storage: -40 ~ 60 °C (-40 ~ 140°F), 10 ~ 90% non-condensing</li> </ul>		
<b>Accessories</b>	<ul style="list-style-type: none"> <li>• Quick start guide</li> <li>• USB port cable</li> <li>• Power cord</li> </ul>		
<b>Factory Option</b>	Internal Bluetooth 5.0 MFI		
<b>Dealer Option</b>	<ul style="list-style-type: none"> <li>• Wi-Fi 802.11a/b/g/n/ac with Bluetooth 4.2 combo module</li> <li>• GPIO (DB25F)</li> <li>• UHF RFID</li> <li>• Ribbon saver</li> <li>• Internal Bluetooth</li> </ul>		
<b>Safety Regulation</b>	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.



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# PEX-2000 Series 6-inch | Datasheet

Printer Model (Left Hand & Right Hand)	PEX-2260L PEX-2260R	PEX-2360L PEX-2360R
<b>Print Resolution</b>	8 dots/mm (203 dpi)	12 dots/mm (300 dpi)
<b>Printing Method</b>	Thermal transfer and direct thermal	
<b>Max. Print Speed</b>	356mm (14")/second	305mm (12")/second
<b>Max. Print Width</b>	168 mm (6.61")	
<b>Max. Print Length</b>	14,732mm (580")	6,604mm (260")
<b>Enclosure</b>	Die-cast based print mechanism	
<b>Physical Dimension</b>	245mm (W) x 300mm (H) x 450mm (D) 9.65" (W) x 11.81" (H) x 17.71" (D)	
<b>Weight</b>	Net weight: 14.35kg (31.64lbs) Gross weight: 17.35kg (38.25lbs)	
<b>Carton Dimension</b>	401mm (W) x 365mm (H) x 573mm (D) 15.79" (W) x 14.37" (H) x 22.56" (D)	
<b>Ribbon Capacity</b>	600m long, max. O.D. 90mm, 1-in. core (ink coated outside or inside)	
<b>Ribbon Width</b>	76mm ~ 180mm (3" ~ 7.1")	
<b>Processor</b>	32-bit RISC high performance processor (BGA 536Mhz)	
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 512MB Flash memory</li> <li>• 512MB DDR2 RAM memory</li> <li>• USB device memory (FAT32)</li> <li>• Micro SD card reader for memory expansion, up to 32GB</li> </ul>	
<b>Interface</b>	<ul style="list-style-type: none"> <li>• RS-232</li> <li>• USB 2.0</li> <li>• Internal Ethernet 10/100 Mbps</li> <li>• USB host*2 (front and rear side), connecting USB storage device</li> <li>• GPIO (DB15F) + Centronics</li> </ul>	
<b>Power</b>	<ul style="list-style-type: none"> <li>• Auto sensing power supply (20% print ratio)</li> <li>• Input: AC 100-240V, 4-2A, 50-60Hz</li> <li>• Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W</li> </ul>	
<b>Display</b>	<ul style="list-style-type: none"> <li>• Multi-language selectable</li> <li>• 3.5" IPS QVGA color display</li> <li>• 1 status indicator</li> </ul>	
<b>Operation Switch, Button</b>	6 operation buttons (Menu, Pause/Feed, Up, Down, Left, Right)	
<b>Sensors</b>	<ul style="list-style-type: none"> <li>• Gap transmissive sensor (position adjustable, 1mm ~ 98mm)</li> <li>• Black mark reflective sensor (bottom or top black mark sensor switchable and position adjustable, 5mm ~ 92mm)</li> <li>• Ribbon end sensor (transmissive)</li> <li>• Ribbon encoder sensor</li> <li>• Head open sensor</li> <li>• Media cover open sensor</li> <li>• Label holder cover open sensor</li> </ul>	
<b>Internal Font</b>	<ul style="list-style-type: none"> <li>• 8 alpha-numeric bitmap fonts</li> <li>• One Monotype Imaging® CG Triumvirate Bold Condensed scalable font</li> <li>• Built-in Monotype True Type Font engine</li> </ul>	
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<b>Font &amp; Barcode Rotation</b>	0, 90, 180, 270 degree	
<b>Printer Language</b>	TSPL-EZD (compatible to EPL,ZPL,ZPL II, DPL); Option for TSPL-EZS (compatible to EPL, ZPL, ZPL II, SBPL)	
<b>Media Type</b>	Continuous, die-cut, black mark, fan-fold, notch	
<b>Media Wound Type</b>	Outside wound	
<b>Media Width</b>	50.8mm ~ 180mm (2" ~ 7.09")	
<b>Media Thickness</b>	<ul style="list-style-type: none"> <li>• Standard (Default): 0.076mm ~ 0.305mm (2.99mil ~ 12.01mil)</li> <li>• RFID tag: 0.076mm ~ 1.2mm (2.99 mil ~ 47.2mil, lift up the front gap sensor wall)</li> <li>• Ribbon saver mode: 0.076mm ~ 0.305mm (2.99mil ~ 12.01mil)</li> </ul>	
<b>Label Length (Peel-off Mode)</b>	25.4mm ~ 152mm (1" ~ 6")	
<b>RFID</b>	<ul style="list-style-type: none"> <li>• RAIN UHF Passive (GS1 EPC Gen2 v2/ISO 18000-63)</li> <li>• Fixed position antenna standard</li> <li>• Minimum label/Tag pitch 0.625" (15.9mm)</li> </ul>	
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<b>Accessories</b>	<ul style="list-style-type: none"> <li>• Quick start guide</li> <li>• USB port cable</li> <li>• Power cord</li> </ul>	
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<b>Dealer Option</b>	<ul style="list-style-type: none"> <li>• Wi-Fi 802.11a/b/g/n/ac with Bluetooth 4.2 combo module</li> <li>• GPIO (DB25F)</li> <li>• UHF RFID</li> <li>• Ribbon saver</li> <li>• Internal Bluetooth</li> </ul>	
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