



# 5r

**MULTI-TECHNOLOGY PLATFORM**  
*leadership by design*

## SCALABLE

Multiple embedded emulations allow users to standardize on a single printer for environments with mixed printer languages

## INNOVATIVE

True Gen 2 RFID Smart™ encoding technology includes an official EPCglobal Gen 2 Certified Hardware module

## BEST OF BREED

Aluminum die cast industrial design, ventless cooling, and high performance processor ideal for rugged environments

## BUILT FOR CHANGE

Multi-protocol capability includes support for the latest Gen 2 standards

## SMART

Intelligent tag management system identifies and overstrikes defective smart labels



## INDUSTRY LEADING RFID PRINTING TECHNOLOGY

Based on the 5r Multi-Technology Platform and patented MP2™ RFID Smart encoding technology, the SL5000r™ MP2 delivers true Gen 2 encoding designed to EPCglobal Gen 2 specifications. The MP2 is the leading encoding technology on the market today with EPCglobal Gen 2 Certified Hardware. This certification mark gives users peace of mind that the printer/encoder complies with EPCglobal standards and has been rigorously tested, assuring predictable results for RFID pilots and implementation. Through **leadership by design** the

SL5000r MP2 delivers support for EPCglobal Gen 2 standards plus industry leading performance and global frequency options.

### KEY FEATURES

- Patented multi-position RFID coupling device optimizes performance for a broad variety of tags
- Intelligent Media Detection prevents non-RFID print jobs from printing on RFID labels, avoiding unnecessary expense
- Embedded EPC privacy logo simplifies label design and system set-up
- Integrated EPCglobal certified multi-protocol UHF RFID encoder meets global frequency requirements
- XML forms printing with embedded industry standard forms and templates
- Printronix Extensible Markup Language (PXML) interface enables real-time printer and job control



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### ASSET PROTECTION

With the SL5000r MP2, Printronix continues to deliver RFID leadership for UHF RFID printing solutions with today's standards using tomorrow's technology. The 5r Multi-Technology Platform offers the foundation for standardization and upgradeability as EPCglobal standards continue to evolve. Ethernet connectivity and printing solutions leverage PrintNet® Enterprise and PXML to achieve RFID supply chain potential. For global compliance, SL5000r MP2 can switch frequencies via regional kits.

**PRINTRONIX**®

GLOBAL PRINTING...ENABLED.

**MP2 TECHNOLOGY**

The RFID SL5000r printer includes Printronix industry leading MP2 RFID Smart encoding technology:

- Gen 2 hardware certified UHF RFID encoder
  - Configured to approved global frequency standards
  - Supports EPCglobal Class 1, Gen 2 standards
- Multi-position RF coupler, Advanced Printer Encoder Firmware

**MEMORY**

DRAM 32MB standard  
Flash 8MB standard (16MB optional)

**PRINTING CHARACTERISTICS**

Print Speed SL5204r-4": 10 IPS @ 203 dpi (254mm/sec)  
SL5304r-4": 8 IPS @ 300 dpi (203mm/sec)  
SL5206r-6": 10 IPS @ 203 dpi (254mm/sec)  
SL5306r-6": 8 IPS @ 300 dpi (203mm/sec)

Printing Methods Thermal transfer or direct thermal  
Resolution 203/300 dpi (operator interchangeable)  
Printable Width 4.1" max (104mm) (SL5204r/SL5304r)  
6.6" max (168mm) (SL5206r/SL5306r)

**RFID CAPABILITIES**

Operating Capabilities Encode with automatic verification and read with or without lock  
Access Gen 2 memory spaces like TID, EPC, User and the Lock and Kill passwords

Error Handling Modes Overstrike – Overprint failed or "bad" RFID tag and applies the data to the next label  
Stop – Pause after detecting a failed or "bad" tag for user intervention  
None – ignores all errors

Statistics Tracking Track the total number of RFID labels processed and the number of failed (overstruck) tags

**MEDIA COMPATIBILITY**

Media Types Roll or fanfold  
Labels, tags and tickets  
Paper, film or synthetic stock  
Thermal Transfer or Direct Thermal

Media Width 1.0" to 4.5" (SL5204r/SL5304r)  
2.0" to 6.8" (SL5206r/SL5306r)

Media Thickness 0.0025" to 0.010"  
Roll Core Diameter 3.0" (7.6 cm)  
Maximum Roll Diameter 8.0" (20.9 cm)

Thermal Transfer Ribbon  
Ribbon Width (min/max) 1.0" to 4.33" (SL5204r/SL5304r)  
2.0" to 6.8" (SL5206r/SL5306r)

Maximum Ribbon Length 625m

**MEDIA HANDLING CHARACTERISTICS**

Tear-Off Individual label tear-off  
Tear-Off Strip Label strips tear-off  
Continuous Labels print continuously  
Cut Label cut to length  
Peel-Off Label peel and present (peel-off mode requires rewind option)

**MEDIA HANDLING OPTIONS**

Rewinder Required for peel and present. Not recommended for batch rewind of RFID labels

Cutter Kit Cuts labels after printing specified number of labels. Not recommended for RFID labels

**OPERATOR CONTROLS & INDICATORS**

Operator Controls Off Line-On Line, Test Print, Job Select, Form Feed Menu, Cancel, Enter

Message Display 32 character

Indicators Off Line-On Line, Menu

**BAR CODE VALIDATION**

Optional Online Data Validation (ODV) - verifies bar code quality, overstrikes failed bar codes, and reprints a label  
Compatible with RFID encoding

**PROGRAMMING LANGUAGES**

Standard Printronix Graphics Language (PGL)†  
Zebra Graphics Language (ZGL)†  
TEC Graphics Language (TGL)  
Intermec Graphics Language (IGL)  
Sato Graphics Language (STGL)†  
Datamax Graphics Language (DGL)  
IER Siège® Graphic Language (IEGL)  
Monarch Graphic Language (MGL)  
XML – Extensible Mark-up Language

**PROTOCOLS**

Optional Telnet TN5250/TN3270

**BAR CODE SYMBOLOGIES AVAILABLE**

AUSTPORT, Aztec, BC35, BC412, CODABAR, Code 11, Code 35, Code 39, Code 93, Code 128 (A,B,C), DATAMATRIX, EAN8, EAN13, FIM, I-2/5, German I-2/5, IMB, Interleaved 2/5, ITF14, Matrix, MAXICODE, MSI, PDF417, PLANET, PLESSEY, POSTNET, POSTBAR, ROYALBAR, RSS14, TELEPEN, UCC/EAN-128, UPC-A, UPC-E, UPC-E0, UPCSHIP, UPS11

**SENSING METHODS**

Transmissive, Reflective (Gap, Mark, Notch, Continuous Sensing Form)

**INTERFACES**

Standard Ethernet (supports PrintNet Enterprise and PXML)  
RS232 Serial  
IEEE 1284 (Centronics)  
USB 2.0

Optional Wireless (802.11b/g, 54mbps)††  
128bit WEP  
WPA-PSK / TKIP (Personal)  
WPA2-PSK / AES CCMP (Personal/Enterprise)  
PEAPv0 MSCHAPv2, LEAP, TTLS (supports PrintNet Enterprise and PXML)  
Coax/Twinax  
GPIO (General Purpose Input/Output)

**FONTS, GRAPHICS SUPPORT, WINDOWS DRIVERS**

Fonts OCRA, OCRB, Courier, Letter Gothic, CG Triumvirate Bold Condensed  
Unicode with TrueType font support

Character Set Unicode with TrueType font support

Graphic Support PCX, BMP and TIFF file formats

Windows Drivers Microsoft Windows NT/2000/XP

**ELECTRICAL REQUIREMENTS**

Line Input 90-264 VAC (48-62Hz) PFC  
Power Consumption 150 watts (typical)  
Regulatory Compliance FCC-B, UL, CSA, ETSI EN 300 220, CE

**ENVIRONMENTAL FACTORS**

Operating Temperature 5°C to 40°C  
Dimensions 11.7" W x 20.5" L x 13.0" H (SL5204r/SL5304r)  
13.4" W x 20.5" L x 13.0" H (SL5206r/SL5306r)

Printer Weight/Shipping Weight 38lbs/47lbs (SL5204r/SL5304r)  
41lbs/50lbs (SL5206r/SL5306r)

† Includes RFID commands

†† USA, Canada, & European Union only

**Printronix offers a wide selection of RFID label sizes and inlay designs as well as thermal transfer ribbons. To learn more about RFID labels and supplies or to place an order, visit [www.rfid.printronix.com](http://www.rfid.printronix.com) or call 800-733-1900.**

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