



# 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 standard as well as Class 0, 0+, 1 and Philips UCode 1.19

## 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 the widest multi-protocol and label choices including support for EPCglobal Class 0, 0+, 1, Gen 2 and Philips UCode 1.19 plus industry leading performance and global frequency options.



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## 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
- Advanced RFID calibration with tag profiling, custom tag configurator and auto inlay locator for easy configuration and versatile media throughput
- Embedded EPC privacy logo simplifies label design and system set-up
- Integrated EPCglobal certified multi-protocol UHF RFID encoder meets global frequency requirements
- Field-upgradeable XML forms printing with embedded industry standard forms and templates
- Printronix Extensible Markup Language (PXML) interface enables real-time printer and job control

## 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® or PXML to achieve RFID supply chain potential. For global compliance, SL5000r MP2 can switch frequencies via regional kits.



**SL5000r RFID PRINTERS**

SL5000r Multi-protocol UHF encoder set to global frequency standards  
Supports EPCglobal Class 0, 0+, 1, Gen 2 and Philips UCode 1.19 standards

**SMART LABEL DEVELOPER'S KIT**

Kit Contents SL5000r MP2 Multi-protocol 4" printer  
RFID UHF reader/encoder  
1000 certified RFID smart labels  
One 625m premium wax ribbon  
PrintNet Ethernet card  
PrintNet Enterprise software CD  
Software Migration Tools (SMT™)

**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 ENCODING MODES**

Operation Modes Write/Verify/Print – writes RFID data to tag and verifies contents are written correctly, while also printing the desired image  
Error Handling Modes Overstrike – when a bad RFID tag is detected, overstrikes label and applies the data to the next label  
Stop – when a bad tag is detected, stops the printer to allow for user intervention  
Statistics Tracking Tracks number of tags written to and number of bad tags detected

**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

**OPERATOR CONTROLS & INDICATORS**

Operator Controls Off Line-On Line, Test Print, Job Select, Form Feed Menu, Cancel, Enter  
32 character  
Message Display  
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 operation

**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)\*

\*Printer Protocol Interpreters for ZPL, TEC, IPL, Sato and DPL with RFID commands for ZPL and Sato only

Optional 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, 125GERMAN, Interleaved 2/5, ITF14, Matrix, MAXICODE, MSI, PDF417, PLANET, PLESSEY, POSTNET, POSTBAR, ROYALBAR, RSS14, TELEPEN, UCC/EAN-128, UPC-A, UPC-E, UPC-EO, UPCSHIP, UPS11

**SENSING METHODS**

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

**INTERFACES**

Standard RS232 Serial  
IEEE 1284 (Centronics)  
USB 2.0  
Optional Ethernet (supports PrintNet Enterprise or PXML)  
Wireless (802.11b) (supports PrintNet Enterprise or 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  
Graphic Support PCX, BMP and TIFF file formats  
Windows Drivers Microsoft Windows NT/2000/XP

**POWER 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 CONSIDERATIONS**

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)

**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.primtronix.com](http://www.rfid.primtronix.com) or call 800-733-1900.**

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