

# SMARTLINE SL5000r ENERGY STAR

## SCALABLE

Multiple emulations allow standardization 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 design, ventless cooling, and high performance processor for harsh environments and high duty cycle applications

## 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™ ENERGY STAR® 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.



## 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.

## KEY FEATURES

- Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy
- 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



PRINTRONIX®

# SMARTLINE SL5000r ENERGY STAR

## MP2 TECHNOLOGY

The RFID SL5000r ENERGY STAR 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	64MB standard
Flash	16MB standard

## 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
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## 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
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## PROTOCOLS

Optional	Telnet TN5250/TN3270
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## BAR CODE SYMBOLOGIES AVAILABLE

AUSTPORT, Aztec, BC35, BC412, CODABAR, Code 11, Code 35, Code 39, Code 93, Code 128 (A,B,C), EAN8, EAN13, FIM, I-2/5, German I-2/5, GS1-128, GS1-Databar, GS1-DATAMATRIX, IMB, Interleaved 2/5, ITF14, Matrix, MAXICODE, MSI,PDF417, PLANET, PLESSEY, POSTNET, POSTBAR, ROYALBAR, TELEPEN, 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	OCR-A, OCRB, Courier, Letter Gothic, CG Triumvirate Bold Condensed
Character Set	Unicode with TrueType font support
Graphic Support	PCX, BMP and TIFF file formats
Windows Drivers	Microsoft Windows NT/2000/XP/Vista/7

## ELECTRICAL REQUIREMENTS

Line Input	90-264 VAC (48-62Hz) PFC
Power Consumption	150 watts (typical)
Regulatory Compliance	IEC60950-2, EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, FCC Part 15 Class B

## 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.