



5^f

MULTI-TECHNOLOGY PLATFORM
leadership by design

SCALABLE

Multi-protocol capabilities support EPCglobal Class 0, 0+, 1, Gen 2 and Philips 1.19 standards and global frequency requirements

INNOVATIVE

Intelligent media detection proactively identifies media type to avoid wasting RFID labels with a standard bar code print job

BEST-OF-BREED

PowerPC controller and new high-performance 5^f driver deliver industry-leading throughput

BUILT FOR CHANGE

EPCglobal Class 1 Gen 2 compatible upgradeability via free firmware update

SMART

Intelligent tag management that identifies and overstrikes substandard smart labels



DELIVERING THE LATEST EPCGLOBAL TECHNOLOGY

Printronic SL5000^f, based on the 5^f Multi-Technology Platform, is the next generation family of RFID printers. These printers deliver *leadership by design* with RFID solutions that address a wide range of applications requiring EPCglobal Class 0, 0+, 1, Gen 2 and Philips 1.19 standards and global frequency requirements.

SL5000^f printers enable encoding and printing of the various label sizes and inlay designs that have emerged through industry implementation. The printers are software upgradeable to support the latest innovations and standards, providing true asset protection.

ADDITIONAL FEATURES

- Integrated RFID UHF encoder meets global frequency requirements
- Smart™ Label encoding validation and overstrike capability
- PGL, ZPL™ and SATO RFID programming language support
- Unique dual motor ribbon system eliminates clutch replacement and ribbon wrinkle
- Snap-in print head allows operator to easily replace print heads and change from 203 dpi to 300 dpi printing without firmware or software changes
- Wireless/Ethernet option provides real-time data access and local printing flexibility
- Online Data Validation option offers a complete bar code/RFID compliant solution
- Printronic PrintNet® Enterprise option provides instantaneous visibility to every network printer and allows simultaneous configuration and management of an unlimited number of Printronic printers
- Greater ribbon capacity eliminates frequent attention and disruption to workflow

ASSET PROTECTION

The Printronic SL5000^f smart label printers provide RFID solutions compliant to today's standards and compatible for growth to expand to tomorrow's needs. Built on the 5^f Multi-Technology Platform, the SL5000^f offers a foundation for protocol upgradeability such as expansion to EPCglobal capabilities via firmware upgrades, including future upgrades to allow EPCglobal Class 1 Gen 2 compatibility. To offer global compliance, these printers can be switched to other regional frequencies via a global upgrade kit.

SL5000^r RFID PRINTERS

SL5000^r Multi-protocol UHF encoder set to global frequency standards
Supports EPCglobal Class 0, 0+, 1, Gen 2, and Philips 1.19 standards*

* Compatibility with future EPCglobal Class 1 Gen 2 standard through firmware upgrade. Please contact Printronix or a Printronix Certified RFID Integrator for availability.

SMART LABEL DEVELOPER'S KIT

Kit Contents SL5000^r MP 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™)

PRINTING CHARACTERISTICS

Print Speed SL5204^r-4": 10 IPS @ 203 dpi (254mm/sec)
SL5304^r-4": 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) (SL5204^r/SL5304^r)

RFID ENCODING MODES

Operation Modes Write/Verify/Print – write 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 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

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" (SL5204^r/SL5304^r)
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 1.0" to 4.33"
Standard Ribbon Length 625m

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 a replacement label is printed
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)*

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

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 (includes PrintNet Enterprise Software CD)
Wireless (802.11b) (includes PrintNet Enterprise Software CD)
Coax/Twinax
GPIO (General Purpose Input/Output)

FONTS, GRAPHICS SUPPORT, WINDOWS DRIVERS

Fonts OCRA, OCRB, Courier, Letter Gothic, CG Triumvirate Bold Condensed
Graphic Support PCX, BMP and TIFF file formats
Windows Drivers Windows NT/2000/XP

MEMORY

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

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
Printer Weight/Shipping Weight 38lbs/47lbs

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 or call 800-733-1900