SMARTLINE™ SL4M™

The Power of RFID

The SL4M™ RFID printer is the price performance leader of the Printronix SmartLine™ series of printers for industrial and commercial applications. Breaching the economic barrier for many RFID applications, the SL4M utilizes short-pitch technology which allows it to print and encode smaller, more affordable labels for item level RFID applications. With reliable performance that meets or exceeds UHF industry expectations, the EPCglobal Gen 2 hardware encoder ensures that it works in a predictable and reliable manner for the best RFID enterprise solution. Lower distribution and handling cost, improved inventory visibility, and the ability to meet the growing need for RFID tagging and regulatory compliance, makes the SL4M the perfect RFID printer/encoder for businesses looking to improve their process at an affordable cost.

The SL4M printer includes standard features usually found in more expensive printers such as PrintNet enterprise - Remote Printer Management software, graphic user interface, upgradeable memory, competitive printer language compatibility and reliable rugged metal construction. It builds upon Printronix's growing leadership in the thermal printing industry, setting a new standard as the price-performance leader to support manufacturer, retailers, government agencies, and more.

Features

SHORT-PITCH TECHNOLOGY
Reduce cost on label media and RFID inlays by printing smaller, more cost effective labels. Short-Pitch technology enables the printer to print and encode labels that are shorter and less expensive to produce.

- Improve supply chain efficiency by maximizing warehouse space, minimizing good shrinkage, improving inventory accuracy and real-time tracking of goods.
- Improve customer service relationships by automatically informing customers when goods are in transit and provide accurate expected delivery times via the Web.

Standard Pitch RFID Label   vs.   Short-Pitch RFID Label

2-1/8" Pitch*

1" Pitch*

* Leading edge of one label to the leading edge of the next label

USER-FRIENDLY
Simplify configuration/installation and everyday operations with a large, easy-to-read screen, unique icon menu and easy loading media.
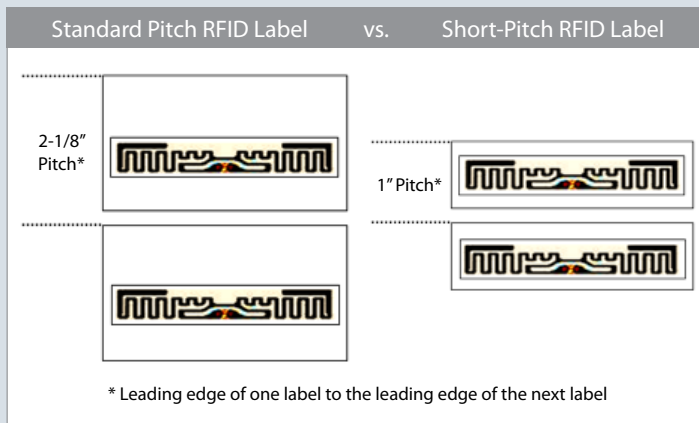
REMOTE PRINTER MANAGEMENT SOFTWARE
Save time and improve productivity. PrintNet enterprise gives you the ability to remotely manage a single printer or team of printers from a single location. PrintNet also provides automatic status alerts to keep downtime to a minimum and productivity high.

WIRED OR WIRELESS
Get the right connectivity for your application. The SL4M comes standard with RS232 Serial, IEEE 1284 (Centronics), Parallel, Ethernet, and USB 2.0. Wireless 802.11 b/g connectivity is available as an option for select regions.   *(See back of datasheet for details.)*

PRINTRONIX®

SMARTLINE **SL4M**

4"Thermal transfer or direct thermal, industrial and commercial grade

RFID Technology: Short-Pitch technology allows you to print smaller, more economical RFID tags with an inlay pitch of only 1" (25mm):

- Configured to approved global frequency standards
- Multi-position RF coupler, Advanced Printer Encoder Firmware
- Supports all leading UHF silicon
- Supports all leading inlay brands
- Compliant with GS1/EPCglobal Class 1 Gen 2 standard
- Configured to meet global frequency standards*

STANDARD FEATURES

32MB DRAM
8MB Flash
Rugged Metal Construction
Printer Install Wizard
Large Graphic User Interface
Color Coded User Cues
Adjustable Transmissive Sensor
Reflective Sensor
Auto-Calibration
USB 2.0, Serial, Parallel, Ethernet
Embedded Printer Language Support
» Printronix, Zebra, TEC, Sato, Intermec, Datamax, IER, Monarch
Label Design Program
XML Enabled Printing
XML Based Remote Management via PXML
PrintNet™ Remote Management
Short-Pitch Technology
Snap-in and Upgradeable Printheads
Media Counter
Ribbon Life Indicator

OPTIONS

Memory Cartridge
Quick Change Memory Cartridge (QCMC)
DBCS Font Cartridge
Real Time Clock
Ethernet, Wireless (802.11b/g)**

Printronix offers a wide selection of RFID label sizes, inlay designs, and thermal transfer ribbons. Contact your local Printronix supplies reseller for Genuine Printronix Ribbons and Labels, or contact Printronix at www.printronix.com or call 800-665-6210.

INTERFACES

Standard: RS232 Serial, IEEE 1284 (Centronics), USB 2.0, Ethernet
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)

USER INTERFACE

Message Display: User friendly interface offering a unique icon menu driven navigation system with up to 8 lines of displayed messages

PRINTING SPECIFICATIONS

Memory: 32MB DRAM, 8MB FLASH
Print Speed: 10 ips @ 203 dpi (254mm/sec @ 8/dpmm), 10 ips @ 305 dpi (254mm/sec @ 12/dpmm)
Printing Methods: Thermal transfer or direct thermal
Resolution: 203 dpi (8/dpmm), optional 305 dpi (12/dpmm)
Printable Width: 4.1" max (104mm)

RFID CAPABILITIES

Operating Capabilities: Encode with automatic verification. Includes access to EPC, user memory, TID, PC, etc.
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: Paper, film or synthetic thermal transfer or direct thermal label, tag and ticket stock in roll or fanfold form
Media Capacity: Roll Supply – 8" diameter on a 3" core (203mm diameter on a 76mm core)
Media and Liner Width: 1.0" to 5.15" (22mm to 127mm)
Label Length(min/max): 0.25" to 99" (6mm to 2,514.6mm)
Thermal Transfer Ribbon: Ribbon Width (min/max) – 1.55" to 5.0" (39.5mm to 127mm)
Maximum Ribbon Length: 450M
Ribbon Core Diameter: 1.0" (25.4 mm)
Ribbon Outer Diameter (max): 3.3" (85mm)
Ribbon Type: Coated side in or coated side out

MEDIA SENSING METHODS

Transmissive (Gap, Notch, Hole), Reflective (Black Mark), Disable (Continuous Media)

 * USA, European Union, Brazil, Mexico, Korea, and China only
** USA and European Union only
 † Includes RFID commands

MEDIA HANDLING MODES

Tear-Off Strip, Peel-Off, Continuous

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)
Extensible Mark-up Language (XML)

BAR CODE SYMBOLOGIES

Linear: Code 39, Interleaved 2/5, Code 128, EAN-8, EAN-13, UPC-A, UPC-E, UPC-E0, UPC-E1, MSI, Codabar, Code 93, Postnet, EAN/UCC-128, UPCSHIP, Industrial 2 of 5, FIM, German 2 of 5, Code 11, Matrix 2 of 5, PostBar (4-state Postal), Royal Mail, UPS-11, Telepen, ITF-14, Logmars, Planet, Australian Post, Plessey, BC 412, Code 3 of 5, USPS Intelligent Mail
2-Dimensional: PDF417 (Micro PDF and Macro PDF), Maxicode, DataMatrix, RSS-14, Aztec, QR

FONTS AND CHARACTER SET

Fonts: Monotype Imaging (Agfa Monotype) – Letter Gothic Bold, Courier Bold, CG Triumvirate Bold Condensed, OCR-A, OCR-B, CG Times, CG Triumvirate, CG Triumvirate Bold, (additional fonts available)
Character Set: Unicode with TrueType font support

GRAPHIC SUPPORT AND WINDOWS DRIVERS

Graphic Support: PCX and TIFF file formats
Windows Drivers: Microsoft Windows 2000 / XP / 7 / 2003 server / 2008 server

ELECTRICAL

Power: Auto ranging power supply 90-264 VAC (48-62Hz) PFC
Regulatory Compliance: FCC Part 15 Subpart C Sections 15.207, 15.209, 15.247, Industry Canada RSS-210, ETSI EN 301 489-1, ETSI EN 301 489-3, EN 61000-3-2, EN 61000-3-3, EN 60950, cMETus, CE, IDA, BSMI, CCC, C-Tick, GOST-R, MIC, Argentina "S" mark
RF Compliance: FCC, CE, COFETEL, ANATEL, KC, SRRC

ENVIRONMENTAL FACTORS

Operating Temperature: 5°C to 40°C
Operating Humidity: 0% to 90% non-condensing
Storage Temperature: -5°C to +60°C (-23°F to +104°F)
Storage Humidity: 5% to 90% non-condensing
Dimensions: 11.75" W x 18.75" D x 12.125" H (298mm W x 476mm D x 308mm H)
Printer Weight: 34lbs (15.4Kg)
Shipping Weight: 42lbs (19Kg)

PRINTRONIX®

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