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
Open standard XML based platform for non-proprietary printing, job and printer control

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

BUILT FOR CHANGE
Snap-in print heads allow operators to replace print heads and change resolution without service calls

SMART READY
Field upgradeability supports future RFID requirements

RFiD (((SMART)))™

THERMAL PRINTING TODAY WITH TECHNOLOGY FOR TOMORROW

Based on the 5r Multi-Technology Platform, the ThermaLine™ T5000r family is an industrial thermal bar code printer designed to operate in challenging environments. Through *leadership by design*, the T5000r combines reliability, utility, power and flexibility for demanding environments and provides the open migration to RFID for future requirements. The T5000r supports the widest range of connectivity and control without sacrificing performance and provides the ability to meet new application and compliance requirements.

The T5000r integrates real world experience that readily adapts to emerging standards. The T5000r firmware can be upgraded to keep pace with new thermal bar code printing innovations and applications.

KEY FEATURES
- 32-bit processor for ultra-fast processing and throughput performance
- 32MB SDRAM memory and 8MB Flash with font and image storage capability
- 625m ribbon reduces downtime and supply cost
- Smart Ready design provides the migration path for future RFID implementation
- Embedded Zebra, TEC, Intermec, Sato and Datamax programming language support
- XML forms printing with embedded industry standard forms and templates
- Unicode with TrueType font support for worldwide compliance and local printing requirements
- Printronix Extensible Markup Language (PXML) interface enables real-time printer management and job control

GUARANTEED BAR CODE QUALITY
The T5000r delivers dependable and reliable bar code printing for compliance labeling and accommodates higher density bar codes, increased graphics or smaller text with snap-in print heads. When used in conjunction with ODV™ technology (Online Data Validation), the T5000r provides verification of scannable bar codes at the point of label creation. Designed as RFID Smart Ready, the T5000r converts to an UHF RFID printer encoder as RFID requirements enter the supply chain. Combining bar code compliance and RFID technology the T5000r links bar code and EPC data together for storage, retrieval, electronic audits and data synchronization.

PRINTRONIX®

GLOBAL PRINTING...ENABLED.

T5000r THERMAL PRINTERS

T5000r	Thermal transfer or direct transfer Industrial grade RFID field upgradeable

FIELD UPGRADE KIT
Upgrade the T5000r to RFID with the following upgrade kit

SLMP2 Kit	Multi-protocol UHF encoder set to global frequency standards Supports EPCglobal Gen 2 standards
(Excludes 8" printers (T5208r/ T5308r)	

MEMORY

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

PRINTING CHARACTERISTICS

Print Speed	T5204r-4": 10 IPS @ 203 dpi (254mm/sec) T5304r-4": 8 IPS @ 300 dpi (203mm/sec) T5206r-6": 10 IPS @ 203 dpi (254mm/sec) T5306r-6": 8 IPS @ 300 dpi (203mm/sec) T5208r-8": 8 IPS @ 203 dpi (203mm/sec) T5308r-8": 6 IPS @ 300 dpi (152mm/sec)
Printing Methods	Thermal transfer or direct thermal
Resolution	203/300 dpi (operator interchangeable)
Printable Width	4.1" max (104mm) (T5204r/T5304r) 6.6" max (168mm) (T5206r/T5306r) 8.5" max (216mm) (T5208r/T5308r)

RFID ENCODING (OPTIONAL UPGRADE KIT) (Excludes 8" printers (T5208r/ T5308r)
UHF encoder set to global frequency standards; supports EPCglobal Class 0, 0+, 1, Gen 2 and Philips UCode 1.19 standards

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" (T5204r/T5304r) 2.0" to 6.8" (T5206r/T5306r) 3.0" to 8.75" (T5208r/T5308r)
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" (T5204r/T5304r) 2.0" to 6.8" (T5206r/T5306r) 3.0" to 8.75" (T5208r/T5308r)
-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
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)* XML – Extensible Mark-up Language

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

Optional	IPDS over Ethernet, Twinax or Coax

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-E0, 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 and PXML) Wireless (802.11b) (supports PrintNet Enterprise and PXML) Coax/Twinax GPIO (General Purpose Input/Output)

FONTS, GRAPHICS SUPPORT, WINDOWS DRIVERS

Fonts	OCRA, OCRB, Courier, Letter Gothic, CG Times, CG Triumvirate, CG Triumvirate Bold, 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

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 (T5204r/T5304r) 13.4" W x 20.5" L x 13.0" H (T5206r/T5306r) 15.4" W x 20.5" L x 13.0" H (T5208r/T5308r)
Printer Weight/Shipping Weight	37lbs/46lbs (T5204r/T5304r) 40lbs/49lbs (T5206r/T5306r) 43lbs/52lbs (T5208r/T5308r)

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.

14600 Myford Road, Irvine, CA 92606
800-665-6210 • www.printronix.com

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