THERMALINE
T5000r ENERGY STAR

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

SMART READY
Field upgradeability supports future RFID requirements

INDUSTRY LEADING BAR CODE PRINTING TECHNOLOGY

Based on the 5r Multi-Technology Platform, the ThermaLine™ T5000r™ ENERGY STAR® 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.

5r
MULTI-TECHNOLOGY PLATFORM
leadership by design

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.

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. All T5000r printers are designed as RFID Ready and can easily be upgraded with Printronix patented MP2™ encoding technology to read and encode UHF RFID Smart Labels. Combining bar code compliance and RFID technology the T5000r links bar code and EPC data together for storage, retrieval, electronic audits and data synchronization.

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

- 166MHz 32-bit RISC processor for ultra-fast processing and throughput performance

- 64MB SDRAM memory and 16MB 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, Datamax, Monarch and IER 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

PRINTRONIX®

THERMALINE
T5000r ENERGY STAR

T5000r THERMAL PRINTERS

T5000r	Thermal transfer or direct transfer
	Industrial grade
	RFID field upgradeable

SLMP2 UPGRADE KIT

Upgrade the T5000r to RFID with the following upgrade kit:
- Multi-protocol UHF encoder set to global frequency standards
- Supports EPCglobal Gen 2 standards

(Excludes 8" printers T5208r/ T5308r)

MEMORY

DRAM	64MB standard
Flash	16MB standard

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)

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. 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

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
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), 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	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/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 (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.

† Includes RFID commands
†† USA, Canada, & European Union only

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

PRINTRONIX®