

The New Standard  
in Thermal Printing

# T5000<sup>e</sup>

Thermal Bar Code Printers



T5000<sup>e</sup>

PRINTRONIX®

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## T5000<sup>e</sup> Printers

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Printronix presents the ultimate bar-coding solution – the **T5000<sup>e</sup>**. This best-of-breed printer provides unique value to enterprise users, because it helps customers at the point of their supply-chain printing needs. Designed specifically for the high-volume applications found in distribution centers and factory floors, the T5000<sup>e</sup> brings customers increased productivity, faster response times, improved product flow and enhanced profitability.

### Reliable Printers

The T5000<sup>e</sup> thermal printer, the perfect label printing solution, offers a wide range of features designed to make batch or on-demand label printing convenient and efficient in the most demanding environments.

- Rugged aluminum die-casting and precision mechanical components for handling the toughest industrial environments and to prolong printer life
- Side-loading media path for easy loading, cleaning and maintenance
- Ventless system for operation in environments with airborne particulate matter without compromise performance
- Unique dual-motor driven ribbon system reduces ribbon wrinkle, eliminates clutches and allows for reverse feed and media usage management
- Extra-long 625-meter ribbon capacity provides more cost effective throughput
- Easily replaceable and interchangeable 203DPI and 300DPI print heads
- Wireless/Ethernet option provides full and complete flexibility of location and application
- Optional external interface provides greater flexibility in the control of external devices, such as applicators



4"  
**T5204/T5304**  
203DPI to 300DPI



6"  
**T5206/T5306**  
203DPI to 300DPI



8"  
**T5208/T5308**  
203DPI to 300DPI

### T5000<sup>e</sup> Applications

The T5000<sup>e</sup> meets your compliance labeling requirements for any of the following applications:

- Inventory and asset labeling
- Shipping labels
- Material handling
- Work-in-process
- Receiving and cross-docking
- Hazardous (HAZMAT) material labeling
- Product marking



### Complete Solutions

WHAT SETS THE T5000<sup>e</sup> APART FROM OTHER THERMAL PRINTERS IS ITS WIDE RANGE OF RELIABLE SOLUTIONS THAT CAN LOWER YOUR OPERATING COSTS AND IMPROVE YOUR RESPONSE TO MARKET NEEDS.

#### Flexible Print Management – the Wireless T5000<sup>e</sup>

In today's just-in-time manufacturing and logistics environments, bar coded labels must be printed when and where needed. Hard-cabling printers, even with Ethernet, may not be efficient or responsive to your production needs.

Equipped with the exclusive Printronix Dual Wireless/Ethernet option, the Printronix wireless T5000<sup>e</sup> provides you with flexible print management from any PC in the world. Once installed in a wireless network, and powered by PrintNet Enterprise, this unique technology:

- Allows complete flexibility of location and application
- Eliminates time-consuming and expensive re-configuration of hard-cabled systems when warehouse or manufacturing floor changeovers occur
- Provides centralized control, consistency, and diagnostics previously available only in hard-cabled PrintNet Enterprise-managed systems

#### Point-of-Application Bar Coding - The T5000<sup>e</sup> Mobile Print System (MPS)

Bar coding applications can be put into place anywhere, at any time. The combination of the wireless T5000<sup>e</sup> and the rugged industrial cart design of the T5000<sup>e</sup> Mobile Print System delivers thermal bar coding directly to locations that need it most. The T5000<sup>e</sup>, which increases efficiency in high-volume environments, includes:

- An ergonomically designed cart with a durable steel frame and heavy-duty wheels for maximum maneuverability and minimal maintenance
- Unique T5000<sup>e</sup> features, including PrintNet<sup>®</sup> Enterprise and ODV™
- Critical features, such as battery-life warning, which are integrated with PrintNet Enterprise and fully visible to operators



## Remote Printer Management - PrintNet® Enterprise

Successful organizations are flexible enough to meet new requirements in a changing marketplace. PrintNet Enterprise provides this flexibility by placing total control of worldwide print operations in your IT network manager's hands. By combining a fully integrated Ethernet adapter and Java-based remote management software, this remote printer management tool provides:



**INSTANT Visibility** – Simultaneous status of every managed Printronix printer anywhere in the world, plus full visibility via HP Open View, Tivoli and other printer management software.

**INSTANT Alerts** – Immediate notification of error conditions and “dead printer” status to key personnel via email, pager and/or cell phone alert.

**INSTANT Control** – Maintenance of saved configurations for consistency of configuration and performance across the enterprise. Broadcasts simultaneous firmware updates to any number of printers automatically.

**INSTANT Printer Organization** – Common group printer organization by application, print technology, manufacturing plant, geography or distribution center location.

**INSTANT Diagnostics** – Authorized users can access print management information from anywhere in the world via the Web.

**FLEXIBLE Print Server** – Assignment of up to eight unique application names and configurations to an individual printer.

## Integration into Legacy and Propriety Language Environments

Printronix provides tools that enable the T5000<sup>e</sup> to integrate seamlessly into virtually any proprietary language environment – a bridge to greater bar code label efficiency, and, ultimately, a link to higher performance and reliability in the delivery cycle of your products. Printronix Printer Interpreters (PPI) integrates the T5000<sup>e</sup> printers into Zebra and TEC installations easily. Once integrated, they maintain all capabilities used in a Printronix environment:

- Full specified speed operation
- Fully enabled PrintNet Enterprise
- Fully operational Online Data Validation
- Fully operational TN5250/3270
- Complete compatibility across all Printronix printer technologies
- Ability to write new applications in PGL

## Ethernet Migration - Printronix TN5250/3270 Ethernet Option

As the market moves towards 100 Base-T and 1 Gigabit Ethernet, maintaining an out-dated Twinax or coax network becomes increasingly difficult to justify. Yet, three powerful factors make migration hard to validate:

- Costly and complicated process
- Current applications that are still serving their business functions
- Twinax or coax networks that still exceeds what is available with many new protocols

The Printronix TN5250/3270 Ethernet Option maintains the job control and visibility of Twinax or coax networks, yet combines it with the speed and efficiency of Ethernet. This optional solution provides:

- Enormous cost savings when integrating industrial printing with existing Ethernet architecture
- Complete compatibility with existing applications
- Same high level of job control obtained with Twinax or coax networks

In addition, the TN5250/3270 Ethernet Option provides:

- Automatic confirmation of which pages have and have not printed
- Knowledge of exactly where an error has occurred in batch printing
- Ability to restart printing on only those pages needed
- Full access to all the features and functionality of PrintNet Enterprise

## Bar Code Quality Assurance - Printronix Online Data Validation (ODV™)

Bar code labels are a vital link in your production cycle — and to your business success. Bad bar codes reduce efficiency, resulting in delayed response to market needs, non-compliance fines and lagging production lines.

Online Data Validation analyzes each bar code to ensure it meets stringent scanning standards. This 100-percent inspection, commenced immediately after the label is printed, validates the symbology specifications of both linear and PDF417 bar code images. Bad bar code labels are cancelled and good replacement labels are printed automatically.

**ODV Data Manager**, when combined with PrintNet Enterprise, is the Printronix solution for fully automated bar code quality control. ODV Data Manager:

- Captures and displays all bar code quality data, by label and bar code
- Captures and displays detailed validation information and actual data within each bar code
- Views all data online and stores in a file or exports it to a database in real time
- Places printers into fault conditions for either bar code quality or data failures



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## Printing Characteristics

Print Speed	(5204)	10 IPS @ 203DPI (254mm /sec)
	(5304)	8 IPS @ 300DPI (203mm /sec)
	(5306)	8 IPS @ 300DPI (203mm /sec)
	(5206)	10 IPS @ 203DPI (254mm /sec)
	(5308)	6 IPS @ 300DPI (152mm /sec)
	(5208)	8 IPS @ 203DPI (203mm /sec)
Printing Methods	Thermal Transfer or Direct Thermal	
Resolution	203 / 300 DPI (interchangeable)	
Printable Width	4.1" max (5204/5304)	
	6.6" max (168 mm) (5206/5306)	
	8.5" max (216 mm) (5208/5308)	

## Media Handling Characteristics

Tear-Off Mode	Individual label tear-off
Tear-Off Strip	Label strips tear-off
Peel-Off	Label peel & present
Cut	Label cut to length

## Media Compatibility

Media Types	Roll or fanfold Die cut or continuous Labels, tags & tickets Paper, film or synthetic stock Thermal Transfer or Direct Thermal
Media Width	1.0" to 4.5" (5204/5304) 2.0" to 6.8" (5206/5306) 3.0" to 8.75" (5208/5308)
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 Ribbons	
Ribbon Width Acceptable	1.0" to 4.33" (5204/5304) 2.0" to 6.8" (5206/5306) 3.0" to 8.75" (5208/5308)
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)
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## Emulations

Standard	IGP - PGL / VGL / LP+
Optional	IPDS over Ethernet Zebra - PPI 1.0 TEC - PPI 2.0

## Protocols

Optional	TN5250 / TN3270
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## Bar Codes

Bar Code Symbolologies Available	Code 39, Code 128 (A, B, C) Codabar, Interleaved 2 of 5, FIM UPC-A, UPC-E, UPC-EO, EAN 8, EAN 13, Code 93, Postnet, Postbar UCC/EAN 128, PDF 417, UPS Maxicode, Royal Mail, Datamatrix
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## Sensing Method

Sensors	Transmissive, Reflective (Gap, Mark, Notch, Continuous Sensing Form)
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## Fonts

Standard	OCRA, OCRB, Courier, Letter Gothic CG Triumvirate Bold Condensed
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## Graphics Support

PCX & TIFF file formats

## Memory

DRAM	8 Mb standard
Flash	4 Mb standard
Optional DRAM	16Mb
Optional Flash	10Mb

## Interfaces

Standard	RS-232 / RS-422 (DB 25 pin) IEEE 1284 (Centronics)
Optional	Coax / Twinax, 10/100Base-T Ethernet (PrintNet) External Interface Wireless (802.11b)*

\*Only offered on T5000<sup>e</sup>

## Windows Drivers

Available	Windows 95 / 98 / 2000 / XP
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## Power Requirements

Line Input	90-264 VAC (48-62Hz) Power Factor Correction
Power Consumption	150 watts (typical)
Regulatory Compliance	FCC, UL, CSA, CE, TUV Energy Star mode (<45 watt)

## Environmental Considerations

Operating Temperature	5°C to 40°C
Dimensions	11.7" W x 20.5" L x 13.0" H (5204/5304) 13.4" W x 20.5" L x 13.0" H (5206/5306) 15.4" W x 20.5" L x 13.0" H (5208/5308)
Printer Weight/Shipping Weight	40lbs/49lbs (5204/5304) 45lbs/54lbs (5206/5306) 49lbs/58lbs (5208/5308)



ISO 9001-1994

# PRINTRONIX<sup>®</sup>

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