

# TH DH Series

## Desktop Barcode Printer

### The Handy Way to Conquer Label Printing Challenges

The 2-inch and 4-inch TH DH Series Desktop Barcode Printers are versatile and flexible for diverse printing requirements. This series' versatility enables printing a wide range of difficult labels, including thick, tiny, and long labels and certain types of vertical market labels.

Our printer language emulation makes the TH DH Series plug-and-play. Its firmware automatically identifies major printer languages and begins printing immediately without changing label templates. The TH DH Series minimizes downtime during daily operations through comprehensive printer management tools (Internal Embedded Webpage, virtual control panel, TSC Console, and SOTI Connect), printer shutdown prevention, and supports network security configurations to manage printers efficiently.

The TH DH Series scales up applications with a wide media width, high-precision printing, and several addable future-proof options for diverse barcode labels, receipts, wristbands, and RFID applications. This empowers businesses to adapt to changing requirements for present and future operations. The eco-friendly printer features 100% recyclable packaging and plastic printer casing. Over 90% of printer components are recyclable at the printer's end-of-life, reducing environmental impact.

## Key Features

### Seamless Integration, Effortless Deployment

- Out-of-the-box auto-switch print language emulation
- User-friendly and convenient label printing with TSC Standalone Creator and TSCPRTGo

### Minimizing Downtime, Maximizing Uptime

- Real-time remote printer monitoring and management with the Internal Embedded Webpage, virtual control panel, TSC Console, and SOTI Connect
- Downtime prevention with self-diagnostic TPH Care, TPH (thermal printhead) maintenance, and ribbon low warning
- User-friendly design: self-diagnostics, toolless TPH and platen roller replacement for easy maintenance, and shortcut buttons for enhanced efficiency
- Supports network security configurations: HTTPS, SNMPv3, 802.1X, and TCP/IP Port 9100 filter

### Versatile, Future-Proof Printing

- 15mm to 120mm wide media width for diverse media types, optional narrow media adaptors support the narrow label width to 10mm
- High-precision print quality with innovative label stabilizing media damper and adjustments in vertical dpi, heater line, and TPH pressure
- Future-proof upgrades: Wi-Fi, Bluetooth, cutter and peeler modules, and care label cutter
- RFID functionality: Encode During Print boosts efficiency, diverse label support (including selected on-metal labels) verified by our Validation Lab, and auto calibration for easy setup

### Environmentally Sustainable Printer

- 100% recyclable packaging with FSC-compliant cartons
- 100% recyclable plastic printer casing made with 30% recycled plastic
- 90%+ of printer components are recyclable

### Healthcare Tailored Design

- Crisp white and bright full-color scheme, perfectly suited for healthcare environments
- Antimicrobial, easy-to-disinfect casing for effortless cleaning, vastly reducing the risk of contamination
- IEC 60601-1 Medical-Grade Compliant Power Supply, ensuring safe and reliable use in healthcare facilities

## Applications

### Retail

- Shelf Labeling
- Inventory Management
- Weight Scale

### Transportation and Logistics

- Shipping Label
- Receiving Label

### Healthcare

- Specimen Labeling
- Pharmacy Labeling
- Patient Tracking

### Apparel

- Clothing Hang Tag
- Care Labeling

### Food & Beverage

- Product Labeling
- Track and Trace



# TH Series 4-Inch Specifications

Model	TH240	TH340	TH240T	TH340T
Resolution	8 dots / mm(203 dpi)	12 dots / mm(300 dpi)	8 dots / mm(203 dpi)	12 dots / mm(300 dpi)
Printing Method	Thermal Transfer & Direct Thermal			
Max. Print Speed	203mm(8")/ second	152mm(6")/ second	203mm(8")/ second	152mm(6")/ second
Max. Print Width	108mm(4.25")	105.7mm(4.16")	108mm(4.25")	105.7mm(4.16")
Max. Print Length	25,400mm(1,000")	11,430mm(450")	25,400mm(1,000")	11,430mm(450")
Enclosure	Clamshell with double-walled plastic			
Physical Dimension	223mm(W)x186mm(H)x286mm(D) 8.78"(W)x7.32"(H)x11.26"(D)			
Weight	2.8kg(6.17lbs)			
Label Roll Capacity	127mm(5")OD			
Ribbon	<ul style="list-style-type: none"> <li>• 300m long, max. OD 67mm, 1" core(ink coated outside)</li> <li>• 110m long, max. OD 40mm, 0.5" core(ink coated outside)</li> </ul>			
Ribbon Width	40mm - 110mm(1.6" - 4.3")			
Processor	32-bit RISC CPU			
Memory	<ul style="list-style-type: none"> <li>• 128 MB Flash memory</li> <li>• 128 MB SDRAM</li> <li>• microSD card reader for Flash memory expansion, max. 512 GB, FAT32 and exFAT only</li> </ul>			
Interface	<ul style="list-style-type: none"> <li>• USB 2.0</li> <li>• RS-232</li> <li>• USB Host</li> <li>• Internal Ethernet, 10/100 Mbps</li> </ul>		<ul style="list-style-type: none"> <li>• 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module(dealer option)</li> <li>• Bluetooth 5.0(dealer option)</li> <li>• MFi Bluetooth 5.0(factory option)</li> </ul>	
Power	External universal switching power supply <ul style="list-style-type: none"> <li>• Input: AC 100-240V, 2.0A, 50-60Hz</li> <li>• Output: DC 24V, 3.75A, 90W</li> </ul>			
Operation Switch, Button, LED/LCD	<ul style="list-style-type: none"> <li>• 1 power switch</li> <li>• 1 feed button</li> <li>• 1 pause button</li> <li>• 1 reprint button</li> <li>• 1 status indicator</li> <li>• 4 intuitive icon indicators</li> </ul>		<ul style="list-style-type: none"> <li>• 1 power switch</li> <li>• 1 feed button</li> <li>• 1 pause button</li> <li>• 1 reprint button</li> <li>• 3.5" color touch display, 480 x 320 pixel</li> </ul>	
Sensors	<ul style="list-style-type: none"> <li>• Transmissive gap sensor</li> <li>• Black mark reflective sensor(position adjustable)</li> </ul>		<ul style="list-style-type: none"> <li>• Ribbon end sensor</li> <li>• Head open sensor</li> </ul>	
Real Time Clock	Standard			
Internal Font	<ul style="list-style-type: none"> <li>• 8 alpha-numeric bitmap fonts</li> <li>• Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font</li> <li>• ARIALUNI.TTF Unicode true type font</li> </ul>			
Barcode	<ul style="list-style-type: none"> <li>• 1D barcode Code 39, Code 93, Code128UCC, Code128 subsets A,B,C, Codabar, Interleaved 2 of 5, EAN 8, EAN 13, EAN 128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, China post, ITF14, EAN14, Code 11, TELEPEN, TELEPENN, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS</li> <li>• 2D barcode TLC39, CODABLOCK F mode, PDF-417, Maxicode, DataMatrix, QR code, Aztec, Micro PDF 417, GS1 DataBar(RSS barcode), rMQR Code</li> </ul>			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-EZD(Compatible to EPL, ZPL, ZPL II, DPL)			
Media Type	Continuous, die-cut, black mark, fan-fold, notch(outside wound)			
Media Width	15mm - 120mm(0.59" - 4.72")			
Media Thickness	0.06mm - 0.19mm(2.36mil - 7.48mil)			
Media Core Diameter	25.4mm - 38.1mm(1" - 1.5")			
Label Length	5mm - 25,400mm (0.20" - 1,000")	5mm - 11,430mm (0.20" - 450")	5mm - 25,400mm (0.20" - 1,000")	5mm - 11,430mm (0.20" - 450")
Environment Condition	<ul style="list-style-type: none"> <li>• Operation: 0°C to 40°C(32°F to 104°F), 25% - 85% non-condensing</li> <li>• Storage: -40°C to 60°C(-40°F to 140°F), 10% - 90% non-condensing</li> </ul>			
Safety Regulation	<ul style="list-style-type: none"> <li>• Printer: CB, FCC Class B, IC, cTUVus, NoM, CE Class B, UKCA, EAC, CCC, BIS, RCM, BSMI, KC, Energy Star 3.2</li> <li>• Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, WPC, RCM, NCC, KC, IMDA, NBTC</li> <li>• MFi Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, RCM, NCC, KC, IMDA, NBTC</li> <li>• RFID: FCC, IC, CE, UKCA, SRRC, RCM, NCC, KC, IMDA, NBTC</li> </ul>			
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS			
Accessories	<ul style="list-style-type: none"> <li>• Quick start guide</li> <li>• USB cable</li> <li>• Power cord</li> <li>• External universal switching power supply</li> </ul>		<ul style="list-style-type: none"> <li>• 1" ribbon spindle x 2 for 300m ribbon roll</li> <li>• 1" ribbon paper core</li> <li>• Media adaptor for 120mm wide media</li> </ul>	
Limited Warranty	<ul style="list-style-type: none"> <li>• Printer: 2 years</li> <li>• Printhead: 25km(1 million inches) or 12 months which comes first</li> <li>• Platen: 50km(2 million inches) or 12 months which comes first</li> </ul>			
RFID	N/A		<ul style="list-style-type: none"> <li>• RAIN UHF Passive(GS1EPC Gen2 v2 / ISO 18000-63)</li> <li>• Multi-position RF Antenna, under media</li> <li>• Minimum label/tag pitch 15.9mm(0.625")</li> <li>• Standard/ Selected On-Metal Tags/ Additional Tag Constructions</li> <li>• Encoding failures: Minimum 1-inch overstrike area</li> <li>• Printer language: TSPL, ZPL</li> <li>• RFID Label Counter: Tracks good/bad labels</li> </ul>	
Factory Option	MFi Bluetooth 5.0		<ul style="list-style-type: none"> <li>• MFi Bluetooth 5.0</li> <li>• RAIN UHF Passive(GS1EPC Gen2 v2 / ISO 18000-63)</li> </ul>	
Dealer Option	<ul style="list-style-type: none"> <li>• Peel-off module</li> <li>• Guillotine cutter(full cut and partial cut)</li> <li>• Care label cutter(full cut)</li> </ul>		<ul style="list-style-type: none"> <li>• 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module</li> <li>• Bluetooth 5.0 module</li> </ul>	
User Option	<ul style="list-style-type: none"> <li>• External label roll mount</li> <li>• KP-200 Plus keyboard display unit</li> </ul>		<ul style="list-style-type: none"> <li>• 10mm narrow media adaptor</li> </ul>	



**CORPORATE HEADQUARTERS**  
TSC Auto ID Technology Co., Ltd.  
Tel: +886 2 2218 6789  
E-mail: apac\_sales@tscprinters.com

**LI ZE PLANT**  
TSC Auto ID Technology Co., Ltd.  
Tel: +886 3 990 6677  
E-mail: apac\_sales@tscprinters.com

**AMERICAS**  
TSC Auto ID Technology America Inc.  
Tel: +1 657 258 0808  
E-mail: americas\_sales@tscprinters.com

**MEXICO**  
TSC Mexico Representative Office  
Tel: +1 52 (33) 3673 1406  
E-mail: americas\_sales@tscprinters.com

**BRAZIL**  
TSC Brazil Representative Office  
Tel: +55 (11) 3554 7225  
E-mail: americas\_sales@tscprinters.com

**EMEA**  
TSC Auto ID Technology EMEA GmbH  
Tel: +49 (0) 8106 37979 000  
E-mail: emea\_sales@tscprinters.com

**RUSSIA**  
TSC Auto ID Technology EMEA GmbH  
Tel: +7 495 646 3538  
E-mail: emea\_sales@tscprinters.com

**MIDDLE EAST**  
TSC Auto ID Technology ME Ltd, FZE  
Tel: +971 4 2533 069  
E-mail: emea\_sales@tscprinters.com

**ASIA PACIFIC**  
TSC Auto ID Technology Co., Ltd.  
Tel: +886 2 2218 6789  
E-mail: apac\_sales@tscprinters.com

**INDIA**  
TSC India Representative Office  
Tel: +91 2249 679 315  
E-mail: apac\_sales@tscprinters.com

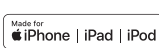
**CHINA**  
Tianjin TSC Auto ID Technology Co., Ltd.  
Tel: +86 22 5981 6661  
E-mail: apac\_sales@tscprinters.com

**KOREA**  
TSC Korea Representative Office  
Tel: +82 2 852 3322  
E-mail: apac\_sales@tscprinters.com

TSC® is a trademark of TSC Auto ID Technology Co., Ltd.  
TSC Auto ID Technology Co., Ltd. is an ISO 9001/14001 registered company.  
© 2025 TSC Auto ID Technology Co., Ltd.  
Product models and Specifications are subject to change without notice.  
Contact your TSC sales representative for specific information.  
20250929

KS 1689 Co.,Ltd.

19/34 Soi Pridi Banomyong 5, Sukhumvit 71 Road, Phra Khanong Nua, Watthana, Bangkok 10110, Thailand.  
Tel: 02-711-0771 ◀ Fax: 02-751-2512 ◀ Email: info@ks-barcode.com



[www.tscprinters.com](http://www.tscprinters.com)