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, printer shutdown prevention, and supports network security configurations to manage printers efficiently.

The TH DH Series scales up applications with a wider media width, high-precision printing, and several addable future-proof options for diverse barcode labels, receipts, wristbands, and UHF and HF RFID applications. This empowers businesses to adapt to changing requirements for present and future operations. The printer minimizes its environmental impact with 100% recyclable packaging and cases, and over 90% of its components are recyclable at end of life.

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 TSCPRTBa

Minimizing Downtime, Maximizing Uptime

- Real-time remote printer monitoring and management with the internal Embedded Webpage, virtual control panel, TSC Console, and SDTI 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
- Streamlined label setup with Save Labels feature in 6.5" DD printers, eliminating manual label alignment and feeding, while reducing waste
- 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, care label cutter, linerless tear-off and linerless cutter kits, HF RFID upgrade kits, UHF RFID upgrade kits, and battery station
- UHF & HF RFID functionality: Encode During Print boosts efficiency, diverse label support, 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
- Optional ribbon-cartridge design for hassle- and mess-free installation
- 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 2-Inch Specifications

Model	TH220	TH320	TH220T	TH320T
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	54mm (2.13")	56.8mm (2.24")	54mm (2.13")	56.8mm (2.24")
Max. Print Length	25.400mm (1000")	11,430mm (450")	25.400mm (1,000")	11,430mm (450")
Enclosure	Clamshell with double-walled plastic			
Physical Dimension	140mm (W) x 178mm (H) x 330mm (D) 5.75" (W) x 7.05" (H) x 13.09" (D)			
Weight	1.6kg (3.53lbs)			
Label Roll Capacity	127mm (5") OD			
Ribbon	300m long, max. OD 83mm, 0.5" core (Ink-coated side in)			
Ribbon Width	54mm ~ 56mm (2.20" ~ 2.28")			
Processor	32-bit RISC CPU			
Memory	• 128 MB Flash memory • 128 MB SDRAM • microSD card reader for Flash memory expansion, max. 512 GB, FAT32 and exFAT only			
Interface	• USB 2.0 • RS-232 • USB Host • Internal Ethernet, 10/100 Mbps		• 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module (dealer option) • Bluetooth 5.0 (dealer option) • NFC Bluetooth 5.0 (factory option)	
Power	External universal switching power supply • Input: AC 100~240V, 1.5A, 50~60Hz • Output: DC 24V, 2.5A, 60W			
Operation Switch, Buttons, LED/LCD	• Power switch • Feed button • Pause button • Reprint button • 3 status indicators • 4 intuitive icon indicators		• Power switch • Feed button • Pause button • Reprint button • 3.5" color touch display, 480 x 320 pixel	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable)		• Ribbon end sensor • Head open sensor	
Real Time Clock	Standard			
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one OS Tiv univalgate Bold Condensed scalable font • Arial & UNI TTF Unicode true type font			
Barcode	• 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, TELEPEN NUMERIC, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode MaxiCode, CODABLOCK F, mode, PDF-417, Data Code, Data Matrix, QR Code, Aztec, Micro PDF-417, GS1 DataBar (RSS family), MicroQR Code			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-EZD Compatible (EPL, ZPL, ZPL II, DPL)			
Media Type	Continuous, die-cut, black mark, fan-fold, notch (outside wound)			
Media Width	54mm ~ 60mm (2.09" ~ 2.28")			
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" ~ 1000")	5mm ~ 11,430mm (0.20" ~ 450")
Environment Condition	• Operation: 0°C to 40°C (32°F to 104°F), 20% ~ 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% ~ 90% non-condensing			
Safety Regulation	• Printer: CB, FCC Class B, CE, cTUVus, NOM, CE Class B, UKCA, EAC, CCC, RCM, BSMI, Energy Star 3.0 • Wi-Fi/Bluetooth: FCC, IC, CE, MIC/A, FAC, SRRC, RCM, NCC • NFC Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, RCM, NCC			
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS			
Accessories	• Quick start guide • USB cable • Power cord		• External universal switching power supply • 0.5" ribbon paper core	
Limited Warranty	• Printer: 2 years • Printhead: 25km/1 million inches or 12 months, which comes first • Platen: 50km/2 million inches or 12 months, which comes first			
Factory Option	• NFC Bluetooth 5.0			
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • Dare label cutter (full cut)		• 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module • Bluetooth 5.0 module	
User Option	• External label roll mount • KP-200 Plus keyboard display unit • 10mm narrow media adaptor		• PDF Print Dongle • BP-6000 smart battery station	



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TH Series 2-Inch for Healthcare Specifications

Model	TH220THC	TH320THC
Resolution	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
Max. Print Width	54mm(2.13")	68.6mm(2.70")
Max. Print Length	25,400mm(1000")	11,430mm(450")
Enclosure	• Diecast with double-walled plastic • Easy-to-clean ready plastic, designed with no screw-to-chassis surface and exposed panel interface • Antibacterial enclosure	
Physical Dimension	146mm(W) x 128mm(H) x 222mm(D) (5.75"(W) x 7.05"(H) x 8.74"(D))	
Weight	1.84kg(3.97lbs)	
Label Roll Capacity	127mm(5") OD	
Ribbon	300m(984') max. OD 33mm(1.3") core (1in) coated outside	
Ribbon Width	46mm - 55mm(1.81" - 2.16")	
Processor	32-bit RISC CPU	
Memory	• 128 MB Flash memory • 128 MB SDRAM • microSD card reader for Flash memory expansion, max. SD 8G, FAT32 and exFAT only	
Interface	• USB 2.0 • RS-232 • USB Host • Internal Ethernet, 10/100 Mbps	• 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module (dealer option) • Bluetooth 5.0 (dealer option) • NFC Bluetooth 5.0 (factory option)
Power	External universal switching power supply • IEC 60601-1 certified power supply • Input: AC 100~240V, 2.0A, 50~60Hz • Output: DC 24V, 3.5A, 84W	
Operation Switch, Button, LED/LCD	• Power switch • Feed button • Light indication	• Feed button • 2.8" color touch display, 480 x 640 pixel
Sensors	• Transmissive gap sensor • Black mark reflective sensor (positionable/adjustable)	• Ribbon end sensor • Head open sensor
Real Time Clock	Standard	
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font • Arial Unicode TTF Unicode true type font	
Barcode	• 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, CAN and UPC 2/5 digits add-on, MSI, PLESSEY, POSTNET, China post, ITF-14, EAN-14, Code 11, TELEPEN, TELEPEN NUMERIC, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode: PDF-417, DataMatrix, QR Code, Aztec, Micro PDF-417, MaxiCode, GS1 DataBar (RSS barcode), TLC39, CODABLOCK F mode	
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 (available w/cutter)	
Media Width	54mm - 60 mm (2.13" - 2.36")	
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")
Environment Condition	• Operation: 0°C to 40°C (32°F to 104°F), 25% - 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% - 90% non-condensing	
Safety Regulation	• Printer: CB, FCC Class B, IC, cTÜVus, CE Class B, UKCA, EAC, CCC, BIS, RCM, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, WPC, RCM • NFC Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, RCM	
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS	
Accessories	• Quick start guide • USB cable • Power cord	• External universal switching power supply • 1.0" (1in) coupler core
Limited Warranty	• Printer: 2 years • Printhead: 25km (1 million inches) or 12 months whichever comes first • Platen: 50km (2 million inches) or 12 months which comes first	
Factory Option	• NFC Bluetooth 5.0	
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module • Bluetooth 5.0 module	
User Option	• External label roll mount • KP-200 Plus keyboard display unit • 12mm (1/2in) ribbon media adaptor	• PDF Print Dongle • BP-4000 smart battery station



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DH Series 2-Inch Specifications

Model	DH220	DH320	DH220T	DH320T
Resolution	8 dots / mm (203 dpi)	12 dots / mm (300 dpi)	8 dots / mm (203 dpi)	12 dots / mm (300 dpi)
Printing Method	Direct thermal			
Max. Print Speed	203mm (8") / second	152mm (6") / second	203mm (8") / second	152mm (6") / second
Max. Print Width	54mm (2.13")	56.9mm (2.24")	54mm (2.13")	56.9mm (2.24")
Max. Print Length	25,400mm (1,000")	11,430mm (450")	25,400mm (1,000")	11,430mm (450")
Enclosure	Carnelian slim double-walled plastic			
Physical Dimension	208mm (W) x 172mm (H) x 215mm (D) (8.42"(W) x 6.77"(H) x 8.27"(D))			
Weight	1.6kg (3.53lbs)			
Label Roll Capacity	127mm (5") OD			
Processor	32-bit RISC CPU			
Memory	• 128 MB Flash memory • 128 MB SDRAM • microSD card reader for Flash memory expansion, max. 512 GB; FAT32 and exFAT only			
Interface	• USB 2.0 • RS-232 • USB Host • Internal Ethernet, 10/100 Mbps • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module (dealer option) • Bluetooth 5.0 (dealer option) • NFC Bluetooth 5.0 (factory option)			
Power	External universal switching power supply • Input: AC 100-240V, 1.5A, 50-60Hz • Output: DC 24V, 2.5A, 60W			
Operation Switch, Button, LED/LCD	• 1 power switch • 1 feed button • 1 pause button • 1 reprint button • 1 status indicator • 2 Wi-Fi/BT connect indicators		• 1 power switch • 1 feed button • 1 pause button • 1 reprint button • 3.5" color touch display, 480 x 320 pixel	
Sensors	• 1 transmissive gap sensor • Black mark reflective sensor (position adjustable) • Head open sensor			
Real Time Clock	(standard)			
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font • Arial UNICODE TrueType font			
Barcode	• 1D barcode: Code 39, Code 93, Code 128 UCC, Code 128 subsets A/B/C, Codabar, Interleaved 2 of 5, EAN 8, EAN 13, EAN 128, UPC-A, UPC-E, EAN and UPC 2SS digit add-on, MSI, PLESSEY, POSTNET, China post, ITF14, EAN14, Code 11, TELEPEN, TELEPEN N, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode: PDF-417, DataMatrix, MaxiCode, QR Code, Micro PDF-417, GS1 DataBar (RSS barcode), Micro QR Code			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-EZD (Compatible to 80%, ZPL, ZPL II, EPL)			
Media Type	Continuous, die-cut, black mark, fan-fold, notch, outside wound, linerless media (for linerless option)			
Media Width	15~112mm (0.59" - 4.41")			
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	• Operation: 0°C to 40°C (32°F to 104°F), 25% ~ 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% ~ 90% non-condensing			
Safety Regulation	• Printer: CB, FCC Class B, IC, cTÜVus, MoM, CE Class B, UKCA, EAC, CCC, RCM, BSMI, Energy Star 2.0 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, PAC, SRRC, RCM, NCC • NFC/Bluetooth: FCC, IC, CE, UKCA, PAC, SRRC, RCM, NCC			
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS			
Accessories	• Quick start guide • USB cable		• Power cord • External universal switching power supply	
Limited Warranty	• Printer: 2 years • Printhead: 25km (15 million inches) or 12 months which comes first • Platen: 50km (2 million inches) or 12 months which comes first			
Factory Option	NFC Bluetooth 5.0			
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module		• Bluetooth 5.0 module • Linerless with cutter (full cut) • Linerless kit for 1" core	
User Option	• External label rewinder • KP-200 Plus keyboard display unit • 12mm narrow media adaptor		• PDF Print Dongle • BP-4000 smart battery station	



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DH-L Series 2-Inch Specifications

Model	DH220L	DH320L	DH220LT	DH320LT
Resolution	8 dots / mm (203 dpi)	12 dots / mm (300 dpi)	8 dots / mm (203 dpi)	12 dots / mm (300 dpi)
Printing Method	Direct Thermal			
Max. Print Speed	203mm (8") / second	152mm (6") / second	203mm (8") / second	152mm (6") / second
Max. Print Width	54mm (2.13")	90.8mm (3.24")	54mm (2.13")	90.8mm (3.24")
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	145mm (W) x 208mm (D) x 184mm (H) 5.70" (W) x 8.17" (H) x 10.39" (D)			
Weight	0.6kg (1.32lb)			
Label Roll Capacity	65mm (2.57") OD			
Processor	32-bit RISC CPU			
Memory	• 512 MB Flash memory • 256 MB SDRAM • Micro SD card reader for Flash memory expansion, max. 512 GB, FAT32 and exFAT only			
Interface	• USB 2.0 • RS-232 • USB Host • Internal Ethernet, 10/100 Mbps • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module (dealer option) • Bluetooth 5.3 (dealer option) • MFi Bluetooth 5.3 (factory option)			
Power	External universal switching power supply • Input: AC 100-240V, 1.5A, 50-60Hz • Output: DC 24V, 2.5A, 60W			
Operation Switch, Button, LED/LCD	• Power switch • Feed button • Pause button • Cancel button • Status indicator • 3-multi-color indicators		• Power switch • Feed button • Pause button • Cancel button • 2.31" (diagonal) full-display, 480 x 320 pixel	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable)		• Head open sensor • Ribbon Low sensor	
Real Time Clock	Standard			
Internal Font	• 6 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with scalable, rotatable and condensed font • ARIAL.TTF Unicode true type font			
Barcode	• 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 add-UPC 2/5 digits add-on, MSI, PLESSEY, POSTNET, Chinese 2 of 5, GS1 DataBar, Code 11, TELEPEN, TELEPEN NUM, PLANET, Code 93, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode TLC39, CODABLOCK F mode, PDF 417, Maxicode, DataMatrix, QR code, Micro QR code, Micro PDF 417, GS1 DataBar (RSS barcode), e-HIBC code			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-EZPL (compatible to EPL-II Plus, ZPL II, IPL)			
Media Type	Continuous, die-cut, black mark, fan-fold, notch, outside wound, liner less media (for liner less option, see page 5)			
Media Width	10 - 60mm (0.39" - 2.36")			
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	• Operation: 0°C to 40°C (32°F to 104°F), 25% - 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% - 90% non-condensing			
Safety Regulation	• Printer: CB, FCC Class B, IC, cTUVus, NOM, CE Class B, UKCA, EAC, CCC, BIS, RCM, BSMI, KC, Energy Star 3.0 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, SRRC, RCM, NCC • MF Bluetooth: FCC, IC, CE, UKCA, SRRC, RCM, NCC • HF RFID: FCC, IC, CE, UKCA, RCM, NCC			
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS			
Accessories	• Quick start guide • USB cable		• Power cord • External universal switching power supply	
Limited Warranty	• Printer: 2 years • Printhead: 25km (15 million inches) or 12 months, which comes first • Ribbon: 50km (2 million inches) or 12 months, which comes first			
HF RFID	N/A		• Standard: ISO/IEC 15693, ISO/IEC 14443A Type A, ISO/IEC 18092 • External fixed antenna, under media • Encoding failures: Maximum 1-inch per label • Printer language: TSPL (standard), ZPL (downloadable)	
Factory Option	MFi Bluetooth 5.3			
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module • Bluetooth 5.3 module		• Liner less with cutter (full cut) • Liner less with tear • HF RFID liner-off upgrade kit • HF RFID cutter upgrade kit	
User Option	• External label roll mount • KP-200 Plus keyboard display unit		• PDF Firmware upgrade • SR-4000 smart battery station	



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Product specifications and features are subject to change without notice. Please visit TSC website for the latest information.

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DH Series 2-Inch Specifications

Model	DH220E	DH320E
Resolution	8 dots / mm (203 dpi)	12 dots / mm (300 dpi)
Printing Method	Direct Thermal	
Max. Print Speed	203 mm (8") / second	152 mm (6") / second
Max. Print Width	54 mm (2.13")	108 mm (4.25")
Max. Print Length	1,016 mm (40")	1,016 mm (40")
Enclosure	Case/cover with double-walled plastic	
Physical Dimension	156 mm (W) x 172 mm (H) x 210 mm (D) (6.14"(W) x 6.77"(H) x 8.27"(D))	
Weight	1.5kg (3.31 lbs)	
Label Roll Capacity	127 mm (5") OD	
Processor	32-bit RISC CPU	
Memory	• 8 MB Flash memory • 16 MB SDRAM	
Interface	USB2.0	
Power	External universal switching power supply • Input: AC 100-240V, 2A, 50-60Hz • Output: DC 24V, 2A, 48W	
Operation Switch, Button, LED/LCD	• 1 power switch • 1 feed button • 1 pause button • 1 reprint button • 1 status indicator • 3 multi-function LED indicators	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable) • Head open sensor	
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font	
Barcode	• 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, TELEPEN N, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode: TLC39, CODABLOCK F, PDF-417, Maxicode, DataMatrix, QR code, Aztec, Micro PDF 417, GS1 DataBar (RSS barcode), HIBC Code	
Font & Barcode Rotation	0, 90, 180, 270 degree	
Printer Language	TSPL-EZ (Compatible to EPL, ZPL, ZPL II, DPL)	
Media Type	Continuous, die-cut, gap/mark, fan-fold, receipt with/without wizard	
Media Width	15 - 60 mm (0.59" - 2.36")	
Media Thickness	0.06mm - 0.19mm (2.36mil - 7.48mil)	
Media Core Diameter	25.4mm - 38.1mm (1" - 1.5")	
Label Length	5mm - 2,286mm (0.20" - 90")	5mm - 1,016mm (0.20" - 40")
Environment Condition	• Operation: 0°C to 40°C (32°F to 104°F), 25% - 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% - 90% non-condensing	
Safety Regulation	CB, FCC Class A, IC, cTUVus, NOM, CE Class A, UKCA, EAC, BSMI, CCC, S-mark, RCM, Energy Star 3.0	
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS	
Accessories	• Quick start guide • USB cable • Power cord • External universal switching power supply	
Limited Warranty	• Printer: 2 years • Printhead: 25km (15.6 million inches) or 12 months which comes first • Platen: 50km (3 million inches) or 12 months which comes first	
User Option	• External label roll mount • 25mm core media adaptor	



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DH Series 2-Inch for Healthcare Specifications

Model	DH220T-HC	DH320T-HC
Resolution	8 dots / mm (203 dpi)	12 dots / mm (300 dpi)
Printing Method	Direct Thermal	
Max. Print Speed	205mm/sec (8") / second	152mm/sec (6") / second
Max. Print Width	54mm (2.13")	104mm (4.09")
Max. Print Length	35,433mm (1,395")	11,430mm (450")
Enclosure	• Clamshell with double-walled plastic • Disinfectant-ready plastic designed with an easy-to-clean surface and a sealed button interface • Antibacterial enclosure	
Physical Dimension	138mm(W) x 172mm(H) x 210mm(D) (5.43"(W) x 6.77"(H) x 8.27"(D))	
Weight	1.6kg (3.53lbs)	
Label Roll Capacity	127mm (5") OD	
Processor	32-bit RISC CPU	
Memory	• 128MB Flash memory • 128MB SDRAM • micro SD card reader for Flash memory expansion, max. 512 GB, FAT32 and exFAT only	
Interface	• USB 2.0 • RS-232 • LAN (opt.) • Internal Ethernet, 10/100 Mbps • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module (dealer option) • Bluetooth 5.0 (dealer option) • NFC (Bluetooth 5.0) (factory option)	
Power	• External universal switching power supply • FCC ENERGY-2 certified power supply • Input: AC 100-240V, 2.0A, 50-60Hz • Output: DC 24V, 2.5A, 60W	
Operation Switch, Button, LED/LCD	• 1 power button • 1 feed button • 1 pause button	• 1 reprint button • 2.4" color touch display, 480 x 320 pixel
Sensors	• Thermal head gap sensor • Black mark reflective sensor (position adjustable) • Head open sensor	
Real Time Clock	Standard	
Internal Font	• Bitmap numeric/email fonts • Monotype Imaging® True Type font engine with new CG Triumvirate Bold Condensed scalable font • Andalé Mono TTF Unicode true type font	
Barcode	• 1D barcode: Code 39, Code 93, Code 128 (UCC, Code 128 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, 13 / 5, EAN14, Code 11, TELEPEN, TELEPEN N, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode: TLC 39, CODABLOCK F mode, PDF 417, Maxicode, DataMatrix, QR code, Aztec, Micro PDF 417, GS1 DataBar (RSS barcode), MaxiCode Mode 2	
Font & Barcode Rotation	0, 90, 180, 270 degree	
Printer Language	TSPL-EZ (Compatible to EPL, DPL, ZPL & CPCL)	
Media Type	Continuous, die-cut, black mark, fan-fold, notch (outside wound), transparent media, tag, ticket, synthetic (plastic)	
Media Width	15mm - 60mm (0.59" - 2.36")	
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" - 1000")	5mm - 11,430mm (0.20" - 450")
Environment Condition	• Operation: 0°C to 40°C (32°F to 104°F), 25% - 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% - 90% non-condensing	
Safety Regulation	• Printer: CB, FCC Class B, IC, cTUVus, CE Class B, UKCA, EAC, CCC, RCM, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, EAC, SRRC, RCM • NFC/Bluetooth: FCC, IC, CE, UKCA, EAC, SRRC, RCM	
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS	
Accessories	• Quick start guide • USB cable	• Power cord • External universal switching power supply
Limited Warranty	• Printer: 2 years • Printhead: 20km (1 million inches) or 12 months whichever first • Please contact your local TSC office for more details	
Factory Option	NFC (Bluetooth 5.0)	
Dealer Option	• Peel-off module • Guillotine cutter (turn-on and set by dial) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module	• Bluetooth 5.0 module • Linerless anti-curl (self-adhesive) • Linerless cutter
User Option	• External label roll mount • KP-200 Plus keyboard display unit • 12mm narrow media adapter	• PDF Print Dongle • BP-4000 smart battery station



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DH-L Series 2-Inch for Healthcare Specifications

Model	DH220LHC	DH320LHC	DH220LTHC	DH320LTHC
Resolution	8 dots/mm(203 dpi)	12 dots/mm(300 dpi)	8 dots/mm(203 dpi)	12 dots/mm(300 dpi)
Printing Method	Direct Thermal			
Max. Print Speed	102mm(4")/ second	152mm(6")/ second	102mm(4")/ second	152mm(6")/ second
Max. Print Width	54mm(2.13")	56.6mm(2.24")	54mm(2.13")	56.6mm(2.24")
Max. Print Length	25.4572mm(1,002")	11.430mm(450")	25.4572mm(1,002")	11.430mm(450")
Enclosure	• Clamshell with double-walled plastic • Disinfectant-resistant plastic designed with an easy-to-clean surface and a sealed interface membrane • Antibacterial materials			
Physical Dimension	145mm(W) x 208mm(H) x 216mm(D) 5.75"(W) x 8.2"(H) x 8.5"(D)			
Weight	2.0kg(4.4 lbs)			
Label Roll Capacity	165mm(6.5") OD			
Processor	32-bit RISC CPU			
Memory	• 512 MB Flash memory • 256 MB SDRAM		• micro SD card reader for Flash memory expansion, max. 512 GB, FAT32 and exFAT only	
Interface	• USB 2.0 • RS-232 • LPBP-host • Internal Ethernet 10/100 Mbps		• 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module (dealer option) • Bluetooth 5.3 (dealer option) • NFC Bluetooth 5.3 (factory option)	
Power	External universal switching power supply • IEC 60601-1 certified power supply • Input: AC 100-240V, 2.5A, 50-60Hz • Output: DC 24V, 2.71A, 65W			
Operation Switch, Button, LED/LCD	• Power switch • Feed button • Pause button • Reprint button • Status indicator • 3 white low-power indicators		• Power switch • Feed button • Pause button • Reprint button • 3.5" color touch display, 480 x 320 pixel	
Sensors	• Transmissive gap sensor • Black mark reflective sensor(position adjustable)		• Head open sensor • Ribbon end sensor	
Real Time Clock	Standard			
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with new OS Truemobile Bold Condensed scalable font • Arial, UNI TTF (Unicode true type font			
Barcode	• 1D barcode: Code 39, Code 93, Code 128 UCC, Code 128 subsets A, B, C, Codabar, Interleaved 2 of 5, EAN 8, EAN 13, EAN 128, UPC-A, UPC-E, EAN add-on UPC 2 (2 digits add-on), MSI, PLESSEY, POSTNET, China post, ITF14, EAN14, Code 11, TELEPEN, TELEPEN N, PLANET, Code 49 Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode: TLC39, CODABLOCK F mode, PDF-417, Maxicode, DataMatrix, QR code, Aztec, Micro PDF 417, GS1 DataBar (RSS barcode), UPICB Code			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-EZPL compatible to EPL, ZPL, ZPL II, CPCL			
Media Type	Continuous, die-cut, black mark, fan-fold, notch, consecutive rewound, linerless media(PoC), linerless options, wristband			
Media Width	15mm - 60mm (0.59" - 2.36")			
Media Thickness	0.06 mm - 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" - 4.50")	5mm - 25.400mm (0.20" - 1.000")	5mm - 11.430mm (0.20" - 4.50")
Environment Condition	• Operation: 0°C to 40°C (32°F to 104°F), 25% - 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% - 90% non-condensing			
Safety Regulation	• Printer: CB, FCC Class B, IC, TÜV-s, NOM, CCC (exc S), UKCA, EAC, CCC, BIS, RCM, ESMK, KC, Energy Star 7.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, SRRC, RCM, NCC • NFC/Bluetooth: FCC, IC, CE, UKCA, SRRC, RCM, NCC • HF RFID: FCC, IC, CE, UKCA, RCM, KCC			
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS			
Accessories	• Quick start guide • USB cable		• Power cord • External universal switching power supply	
Limited Warranty	• Printer: 2 years • Printhead: 25km (1 million inches) or 12 months, which comes first • Platen: 50km (2 million inches) or 12 months, which comes first			
HF RFID	N/A		• Standard: ISO/IEC 15693, ISO/IEC 14443 Type A, ISO/IEC 18092 • External fixed antenna, under media • Encoding distance: Minimum 1 inch (varies by tag) • Printer language: TSPL (standard), SBPL (upon request)	
Factory Option	NFC Bluetooth 5.3			
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module • Bluetooth 5.3 module		• Linerless with cutter (full cut) • Linerless with tear • HF RFID rear-off upgrade kit • HF RFID cutter upgrade kit	
User Option	• External label roll mount • KP-200 Plus Keyboard (Bilingual)		• PDF Print Dongle • BP-6000 smart battery station	



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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")	106.7mm(4.16")	108mm(4.25")	106.7mm(4.16")
Max. Print Length	25,400mm(1,000")	11,430mm(450")	25,400mm(1,000")	11,430mm(450")
Enclosure	Die-cast aluminum, durable, walk-up plastic			
Physical Dimension	323mm(W) x 185mm(D) x 239mm(H) (12.72"(W) x 7.32"(H) x 11.26"(D))			
Weight	3.9kg(8.7lbs)			
Label Roll Capacity	127mm(5") OD			
Ribbon	• 300m long, max. 20 (65mm, 2.5" core) ink coated outside • 110m long, max. 600 (60mm, 0.5" core) wax-coated outside			
Ribbon Width	40mm~110mm(1.6"~4.3")			
Processor	32-bit RISC CPU			
Memory	• 128 MB Flash memory • 128 MB SDRAM • micro SD card reader for Flash memory expansion, max. 32GB, FAT32 and exFAT only			
Interface	• USB 2.0 • RS-232 • USB Host • Internal Ethernet, 10/100 Mbps		• 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module (dealer option) • Bluetooth 5.0 (dealer option) • RF (Bluetooth 5.0) factory option	
Power	External universal switching power supply • Input: AC 100-240V, 2.0A, 50-60Hz • Output: DC 24V, 2.75A, 30W			
Operation Switch, Button, LED(1), LCD	• Power switch • Feed button • Pause button • Cancel button • Graphical indicator • Alphabetical icon indicators		• Power switch • Feed button • Pause button • Cancel button • 2.5" color touch display, 480 x 320 pixel	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position via jumper)		• Ribbon end sensor • Head open sensor	
Real Time Clock	Standard			
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one (1) Tri Lumen Bold Condensed scalable font • Arial / Unicode true type font			
Barcode	• 1D barcode: Code 39, Code 93, Code 128 UCC, Code 128 subsets A, B, C, Codabar, Interleaved 2 of 5, EAN 8, EAN 13, EAN 128, UPC-A, UPC-E, EAN and UPC 2 digits add-on, 5 digits add-on, POSTNET, China post, UPS MaxiCode, Code 11, TELEPEN, FLATCODE, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode: PDF 417, Data Matrix, MaxiCode, QR Code, Aztec, DataMatrix, GS1 DataBar, Micro PDF 417, GS1 DataBar (RSS) barcodes, MSI Code			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-EZPL (migration to DPL, DPL, ZPL & CPCL)			
Media Type	Continuous, die-cut, black mark, fan-fold, notch (outside wound)			
Media Width	15mm ~ 120mm (0.59" ~ 4.72")			
Media Thickness	• Standard: 0.06mm ~ 0.19mm (2.36mil ~ 7.48mil) • Selection media: 58 gsm ~ 0.08mm ~ 1.85mm (2.36mil ~ 52.15mil)			
Media Core Diameter	25.4mm ~ 38.1mm (1" ~ 1.5")			
Label Length	6mm ~ 25,400mm (0.23" ~ 1,000")	6mm ~ 11,430mm (0.23" ~ 450")	16mm ~ 25,400mm (0.63" ~ 1,000")	16mm ~ 11,430mm (0.63" ~ 450")
Environment Condition	• Operation: 0°C to 40°C (32°F to 104°F), 25% ~ 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% ~ 90% non-condensing			
Safety Regulation	• Printer: CB, FCC Class B, IC, ITE, cULus, NOM, CE Class B, UKCA, EAC, CCC, BIS, RCM, BSMI, KC, Energy Star 3.0 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, EAC, SRRC, WPC, RCM, NCC, KC, IMDA, NBTC • RF/Bluetooth: FCC, IC, CE, UKCA, EAC, SRRC, RCM, NCC, KC, IMDA, NBTC • RFID: FCC, IC, CE, UKCA, SRRC, WPC, RCM, NCC, KC, IMDA, NBTC, ANATEL, CRT			
Environmental Concern	Compliant with RoHS, REACH, WEEE, China RoHS			
Accessories	• Quick start guide • USB cable • Power cord • External universal switching power supply		• Printhead cleaning pen x 2 for 300m ribbon roll • Ribbon paper core • Media adaptor for 130mm wide media	
Limited Warranty	• Printer: 2 years • Printhead: 25km (Continuous printing) or 12 months (which comes first) • Ribbon: 100m (2 million inches) or 12 months (which comes first)			
UHF RFID	N/A		• RAIN UHF Passive (ISO 18000-6C) • Maximum label/tag pitch: 16.5 mm (0.65") • Standard/ Select On-Metal Tags/ Additional Tag Constructions • Select On-Metal Tag thickness up to 1.35mm (0.05"), tear mode only • Encoding failures, Wavejet technology drive • Printer language: TSPL, ZPL • RFID Label Counter, Test to good/bad labels	
Factory Option	RF/Bluetooth 5.0		• RF/Bluetooth 5.0 • RAIN UHF Passive (internal multi-position RF antenna, under media)	
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • Cane label cutter (full cut) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module		• Bluetooth 5.0 module • UHF RFID tear-off upgrade kit (external fixed RF antenna, above media) • UHF RFID cutter upgrade kit (external multi-position RF antenna, under media)	
User Option	• External label rewinder • KP-200 Plus key pad display unit • 76mm narrow media adapter		• PDF Print Disable • BP-V200 smart battery station	



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TH Series 4-Inch for Healthcare Specifications

Model	TH240THC	TH340THC	TH240TRDHC	TH340TRDHC
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	300mm(11.8") / 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 • Destructive ready plastic designed with an easy-to-clean surface and a sealed button/interface • Antibacterial resin spray			
Physical Dimension	222mm(W) x 188mm(D) x 248mm(H) 8.78"(W) x 7.42"(H) x 11.29"(D)			
Weight	2.8kg(6.18lb)			
Label Roll Capacity	127mm(5"OD)			
Ribbon	• 300m long, max. OD 83mm, 1" core (ink coated outside) • 110m long, max. OD 60mm, 0.5" core (ink coated outside)		600m long ribbon cartridge	
Ribbon Width	40mm ~ 110mm(1.6" ~ 4.3")		110mm(4.3")	
Processor	32-bit RISC CPU			
Memory	• 128MB Flash memory • 128MB SDRAM		• micro SD card ready for flash memory expansion, max. 512GB, FAT32 and exFAT only	
Interface	• USB 2.0 • RS-232 • USB Host • Internal Ethernet, 10/100 Mbps		• RS-232, Parallel, Wi-Fi with Bluetooth 5.0 combo module (dealer option) • Bluetooth 5.0 (dealer option) • MFi Bluetooth 5.0 (factory option)	
Power	External universal switching power supply • IEC 60601-1 certified power supply		• Input: AC 100-240V, 2.0A, 50~60Hz • Output: DC 24V, 3.75A, 90W	
Operation Switch, Button, LED/LCD	• Power switch • Feed button	• Pause button • Cancel button	• 3.5" color touch display, 480 x 320 pixel	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable)		• Ribbon end sensor • Head open sensor	
Real Time Clock	Standard			
Internal Font	• Alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIAL.TTF Unicode true type font			
Barcode	• 1D barcode: Code 39, Code 93, Code 128 UCC, Code 128 subsets A, B, C, Codabar, Interleaved 2 of 5, EAN8, EAN 13, EAN 128, UPC-A, UPC-E, Extend UPC, UPC 2S (add-on), PDF417, PLESSEY, POSTNET, Chinese post, CPEN, EAN 14, Code 11, TELEPEN, TELEPEN N, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode: TLC39, DataMatrix, MaxiCode, PDF 417, Micro PDF 417, GS1 DataBar (RSS barcode), QR Code, Aztec, Micro QR			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-TSPL2 Compatible for GPL, GPL-A, GPL-X, DPL			
Media Type	Continuous, die-cut, black mark, fan-fold, notch (suitable ribbon)			
Media Width	40mm ~ 120mm(1.58" ~ 4.72")			
Media Thickness	• Standard: 0.06mm ~ 0.19mm(2.36mil ~ 7.48mil) • Smart on-metal RFID tags: 0.08mm ~ 1.55mm(2.36mil ~ 61.0mil)			
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" ~ 447")
Environment Condition	• Operation: 0°C to 40°C(32°F to 104°F) 25% ~ 85% non-condensing • Storage: -40°C to 60°C(-40°F to 140°F) 10% ~ 90% non-condensing		• Operation: 0°C to 40°C(32°F to 104°F) 25% ~ 85% non-condensing • Storage: -40°C to 60°C(-40°F to 140°F) 10% ~ 90% non-condensing	
Safety Regulation	• Printer: CB, FCC Class B, IC, CCATS, CE Class B, UKCA, EAC, CCC, BIS, RCM, KC, Energy Star 3.0 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, TAC, SRRC, WPC, RCM, KC, IMDA, NBTC • MFi Bluetooth: FCC, IC, CE, UKCA, TAC, SRRC, RCM, KC, IMDA, NBTC • RFID: FCC, IC, CE, UKCA, SRRC, WPC, RCM, KC, IMDA, NBTC, ANATEL		• Printer: CB, FCC Class B, IC, CCATS, CE Class B, UKCA, Energy Star 3.0 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA • MFi Bluetooth: FCC, IC, CE, UKCA	
Environmental Concern	Compliance to RoHS, REACH, WEEE, China RoHS			
Accessories	• Quick start guide • USB cable • Power cord • External universal switching power supply	• 1" ribbon spindle x 2 for 300m ribbon roll • 1" ribbon paper core • Media adaptor for 121mm wide media	• Quick start guide • USB cable • Power cord	• External universal switching power supply • Media adaptor for 121mm wide media
Limited Warranty	• Printer: 2 years • Printhead: 25km (1 million inches) or 12 months, which comes first • Platen: 50km (2 million inches) or 12 months, which comes first			
UHF RFID	• RAIN UHF Passive EPC Gen2 v2 / ISO 18000-6C • Minimum label / tag pitch: 51.9mm(2.05") • Standard / Select On-Metal Tags / Additional Tag Constructions • Select On-Metal Tag thickness up to 1.35mm(0.05") tear mode only		N/A	
	• Encoding failures: Minimum 1 retry and re-feed on error • Printer language: TSPL-ZPL • RFID Label Counter: Tracks good / bad labels			
Factory Option	• MFi Bluetooth 5.0 • RAIN UHF Passive (internal multi-position RF antenna, under media)		MFi Bluetooth 5.0	
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module • Bluetooth 5.0 module		• UHF RFID tear-off upgrade kit (external fixed RF antenna, above media) • UHF RFID cutter upgrade kit (external multi-position RF antenna, under media)	
User Option	• External label rewinder • KP-200 Plus keyboard display unit • 76mm narrow media adaptor		• PDF Print Demo • BP-A200 smart battery station	



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DH Series 4-Inch Specifications

Model	DH240	DH340	DH240T	DH340T
Resolution	8 dots / mm (203 dpi)	12 dots / mm (300 dpi)	8 dots / mm (203 dpi)	12 dots / mm (300 dpi)
Printing Method	Direct thermal			
Max. Print Speed	300mm (8") / second	152mm (6") / second	203mm (8") / second	152mm (6") / second
Max. Print Width	108mm (4.25")	106.7mm (4.16")	108mm (4.25")	106.7mm (4.16")
Max. Print Length	25,400mm (1,000")	11,430mm (450")	25,400mm (1,000")	11,430mm (450")
Enclosure	Die-cast chassis with durable rubber platen roller			
Physical Dimension	208 mm (W) x 178 mm (H) x 228 mm (D) 8.19" (W) x 8.00" (H) x 8.25" (D)			
Weight	3.1kg (6.83lbs)			
Label Roll Capacity	127mm (5") OD			
Processor	32-bit RISC CPU			
Memory	• 128 MB Flash memory • 128 MB SDRAM • micro SD card reader for Flash memory expansion, max. 512 GB, FAT32 and exFAT only			
Interface	• USB 2.0 • RS-232 • USB Host • Internal Ethernet, 10/100 Mbps • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 (combo module/dealer option) • Bluetooth 5.0 (dealer option) • RFID Bluetooth 5.0 (factory option)			
Power	External universal switching power supply • Input: AC 100-240V, 2.0A, 50-60Hz • Output: DC 24V, 3.75A, 90W			
Operation Switch, Button, LED/LCD	• Power switch • Feed button • Pause button • Cancel button • 1 status indicator • 3 intuitive icon indicators		• Power switch • Feed button • Pause button • Cancel button • 3.5" color touch display, 480 x 320 pixels	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable) • Head open sensor			
Real Time Clock	Standard			
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Imaging™ true type font engine with over 80 Thai variable Roll C condensed scalable fonts • ARIAL.TTF Unicode true type font			
Barcode	• 1D barcode: Code 39, Code 93, Code 128 UCC, Code 128 subsets A, B, C, Codabar, Interleaved 2 of 5, EAN8, EAN13, UPC A, UPC E, EAN and UPC 2/5 digits add-on, MSI, PLESSEY, POSTNET, China post, ITF14, EAN14, Code 11, TELEPEN, TELEPEN N, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode: TLC39, CODABLOCK F mode, PDF-417, Maxicode, DataMatrix, QR code, Aztec, Micro PDF-417, GS1 DataBar (RSS barcodes), MaxiCode			
Font & Barcode Rotation	0, 90, 180, 270 degree			
Printer Language	TSPL-2 (TSC compatible to EPL, ZPL, ZPL II, CPCL)			
Media Type	Continuous, die-cut, black mark, fan-fold, notch (suitable required), liner less media, Pull liner less (driver)			
Media Width	15mm - 120mm (0.59" - 4.72")			
Media Thickness	0.06 mm - 0.19mm (2.36mil - 7.48mil)			
Media Core Diameter	25.4mm - 76.2mm (1" - 3")			
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	• Operation: 0°C to 40°C (32°F to 104°F), 25% - 85% non-condensing • Storage: -40°C to 60°C (-40°F to 140°F), 10% - 90% non-condensing			
Safety Regulation	• Printer: CB, FCC Class B, IC, cTUVus, NOM, CE Class B, UKCA, EAC, CCC, BIS, RCM, BSMI, KC, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, PAC, SRRC, WPC, RCM, NCC, KC • RFID Bluetooth: FCC, IC, CE, UKCA, PAC, SRRC, RCM, NCC, KC			
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS			
Accessories	• Quick start guide • USB cable		• Power cord • External universal switching power supply	
Limited Warranty	• Printer: 2 years • Printhead: 25km (15 million inches) or 12 months, which comes first • Platen: 50km (2 million inches) or 12 months, which comes first			
Factory Option	RFID Bluetooth 5.0			
Dealer Option	• Peel-off module • Guillotine cutter (tuccu and part slicer) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module		• Bluetooth 5.0 module • Linerless with cutter (full cut) • Linerless arm rest	
User Option	• External label roll mount • KP-200 Plus keyboard display unit • 80mm narrow media adaptor		• PDF Print Dongle • BP-4000 smart battery station	



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DH Series 4-Inch for Healthcare Specifications

Model	DH240THC	DH340THC
Resolution	8 dots / mm(203 dpi)	12 dots / mm(300 dpi)
Printing Method	Direct Thermal	
Max. Print Speed	203mm(8") / second	152mm(6") / second
Max. Print Width	108mm(4.25")	105.7mm(4.16")
Max. Print Length	35.4200mm(1,000")	11,4200mm(450")
Enclosure	• Clamshell with double-walled plastic • Disinfectant-ready plastic designed with an easy-to-clean surface and a sealed button interface • Antibacterial enclosure	
Physical Dimension	208(W)mm(8")x 278mm(H)x 236(D)mm(D) 8.19"(W) x 10.95"(H) x 9.25"(D)	
Weight	2.5kg(5.51lbs)	
Label Roll Capacity	127mm(5"OD)	
Processor	32-bit RISC CPU	
Memory	• 128MB Flash memory • 128MB SDRAM • microSD card reader for Flash memory expansion, max. 512 GB, FAT32 and exFAT only	
Interface	• USB 2.0 • RS-232 • LPD Print • Internal Ethernet, 10/100 Base • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module(dealer option) • Bluetooth 5.0(dealer option) • MFi Bluetooth 5.0(factory option)	
Power	External universal switching power supply • IEC 60601-1 certified power supply • Input: AC 100-240V, 2.0A, 50-60Hz • Output: DC 24V, 3.75A, 90W	
Operation Switch, Button, LED/LCD	• 1 power switch • 1 feed button • 1 pause button	• 1 reprint button • 3.5" color touch display, 480x320 pixel
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable) • Head open sensor	
Real Time Clock	Standard	
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Imaging® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIAL.TTF (Unicode true type font)	
Barcode	• 1D barcode Code 39, Code 93, Code 128UCC, 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, Chinese post, GTIN-14, MRA, Code 11, TELEPEN, TELEPEN N, PLANET, Code 49, Deutsche Post Identcode, Deutsche Post Leitcode, LOGMARS • 2D barcode PDF417, CODABLOCK F mode, MicroPDF417, Maxicode, DataMatrix, QR code, Aztec, MicroPDF417, GS1 DataBar (RSS) barcodes, mPDF Code	
Font & Barcode Rotation	0, 90, 180, 270 degree	
Printer Language	TSPL-EZ(Compatible to EPL, ZPL, ZPL II, CPL)	
Media Type	Continuous, die-cut, black mark, hair-fold, notch (outside wound, fanfold, media with perforation)	
Media Width	15mm - 120mm(0.59" - 4.72")	
Media Thickness	0.06 mm - 0.19mm(2.36mil - 7.48mil)	
Media Core Diameter	25.4mm - 38.1mm(1" - 1.5")	
Label Length	5mm - 35.4200mm(0.20" - 1000")	5mm - 11.4200mm(0.20" - 450")
Environment Condition	• Operation: 0°C to 40°C(32°F to 104°F), 25% - 85% non-condensing • Storage: -40°C to 60°C(-40°F to 140°F), 10% - 90% non-condensing	
Safety Regulation	• Printer: CB, FCC Class B, IC, cTUVus, CE Class B, UKCA, EAC, CCC, BIC, NOM, BSMI, KC, Energy Star 3.0 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, NAI, SRRC, WPC, NCC, KC • MFi Bluetooth: FCC, IC, CE, UKCA, EAC, SRRC, NCC, KC	
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS	
Accessories	• Quick start guide • USB cable	• Power cord • External universal switching power supply
Limited Warranty	• Printer: 2 years • Printhead: 25km (1 million inches) or 12 months, which comes first • Platen: 50km (2 million inches) or 12 months, which comes first	
Factory Option	MFi Bluetooth 5.0	
Dealer Option	• Peel-off module • Guillotine cutter (turn on and set by LCD) • 802.11a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module	• Bluetooth 5.0 module • Linerless with cutter (full cut) • Linerless with tear
User Option	• External label roll mount • KP-200 Plus key board display unit • 76mm narrow media adaptor	• PDF Print Dongle • BP-4000 smart battery station



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Wi-Fi Bluetooth iPhone / iPad / iPod MFi COMPACT

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Product specifications and features are subject to change without notice.

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BP-4000

Smart Battery Station

Enabling On-The-Spot Printing

The BP-4000 Smart Battery Station enhances the mobility of TH DH Series desktop printers, delivering reliable power and smart management for on-the-spot printing.



Key Features

- Detachable battery station brings mobility to TH DH Series desktop printers
- High-capacity 4,000mAh (66Wh) battery powers printing of up to 40,000 inches* of media on a single charge
- Smart battery with Battery Management System (BMS) enables status monitoring via printers, TSC Console, and TSC Console Web
- Swappable battery design allows easy removal and charging with a printer power supply

Specifications

Model	BP-4000
Battery Type	Rechargeable Li-ion smart battery
Physical Dimension	• Battery Pack: 61mm(W) x 86mm(H) x 20.5mm(D) (2.4"(W) x 3.4"(H) x 0.8"(D)) • Base Housing: 220mm(W) x 185mm(H) x 28mm(D) (8.7"(W) x 7.3"(H) x 1.1"(D)) • Printer Quick Release Plate: 183mm(W) x 86mm(H) x 2.62mm(D) (7.22"(W) x 3.3"(H) x 0.1"(D))
Weight	• Battery Pack: 1.1lbs/0.5kg • Base Housing: 0.7lbs/0.32kg • Printer Quick Release Plate: 0.35lbs/0.16kg
Nominal Capacity	4000mAh, 66Wh
Interface	• DC-in port for battery charging • DC power plug cable for supplying power to the printer • USB-A cable for connecting to the printer for battery management • 2 front USB host ports for storage devices or a USB keyboard/scanner
DC Input	24Vdc, 2.5A
DC Output	• DC power plug cable: 24Vdc, 1A • USB1: 5Vdc, 2.5A • USB2: 5Vdc, 0.5A
Charging Time	~4 hours
Operation Button and LED	• 1 battery power button • 4 LED indicators for battery status
Environment Condition	• Charging: 0°C to 40°C (32°F to 104°F), 45% - 85% non-condensing • Discharging: 0°C to 40°C (32°F to 104°F), 45% - 85% non-condensing • Storage: -20°C to 40°C (-4°F to 104°F), Less than 70% non-condensing
Battery Life Cycle	500 cycles at 80% capacity retention
Safety Regulation	CB, FCC, ICES-003, CE, UKCA, RCM, BSMI, UCC, BIS, UN38.3
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS
Applicable Models	TH241 series, DH240 series, TH220 series, DH220 series, DH210L series (exclude DH210E series)
Limited Warranty	1 year

*Printing length may vary based on actual usage.



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