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 wide 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 case, 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 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
- Streamlined label setup with Save Labels feature in 6.5" OD 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")	56.9mm (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	Clamshell with double-walled plastic			
Physical Dimension	146mm (W) x 179mm (H) x 231mm (D) 5.75" (W) x 7.05" (H) x 9.09" (D)			
Weight	1.8kg (3.97lbs)			
Label Roll Capacity	127mm (5") OD			
Ribbon	90m long, max. OD 37mm, 0.5" core (ink coated outside)			
Ribbon Width	56mm - 58mm (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		• 802.11 a/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 • 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 • 4 intuitive icon indicators		• 1 power switch • 1 feed button • 1 pause button • 1 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 Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code			
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 - 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" - 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, NoM, CE Class B, UKCA, EAC, CCC, RCM, BSMI, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, RCM, NCC • MFi 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	• MFi Bluetooth 5.0			
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • Care label cutter (full cut)		• 802.11 a/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-4000 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")	56.9mm (2.24")
Max. Print Length	25,400mm (1,000")	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	146mm (W) x 179mm (H) x 231mm (D) 5.75" (W) x 7.05" (H) x 9.09" (D)	
Weight	1.8kg (3.97lbs)	
Label Roll Capacity	127mm (5") OD	
Ribbon	90m long, max. OD 37mm, 0.5" core (ink coated outside)	
Ribbon Width	56mm - 58mm (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	• 802.11 a/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, 2.5A, 60W	
Operation Switch, Button, LED/LCD	• 1 power switch • 1 feed button • 1 pause button	• 1 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 Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code	
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 - 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" - 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 • MFi 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 • 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	• MFi Bluetooth 5.0	
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • 802.11 a/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-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	Clamshell with double-walled plastic			
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	• 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 • 802.11 a/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 • 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 • 3 intuitive icon indicators		• 1 power switch • 1 feed button • 1 pause button • 1 reprint button • 3.5" color touch display, 480 x 320 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 Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code			
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), linerless media (for linerless option)			
Media Width	15 - 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" - 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, NoM, CE Class B, UKCA, EAC, CCC, RCM, BSMI, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, RCM, NCC • MFi 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	
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 (full cut and partial cut) • 802.11 a/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 keyboard display unit • 10mm 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")	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	Clamshell with double-walled plastic			
Physical Dimension	146mm (W) x 206mm (H) x 264mm (D) 5.75" (W) x 8.11" (H) x 10.39" (D)			
Weight	2.0kg (4.41 lbs)			
Label Roll Capacity	165mm (6.5") OD			
Processor	32-bit RISC CPU			
Memory	• 512 MB Flash memory • 256 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 • 802.11 a/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	• 1 power switch • 1 feed button • 1 pause button • 1 reprint button • 1 status indicator • 3 intuitive icon indicators		• 1 power switch • 1 feed button • 1 pause button • 1 reprint button • 3.5" color touch display, 480 x 320 pixel	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable)		• Head open sensor • Save Labels sensor	
Real Time Clock	Standard			
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code			
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), linerless media (for linerless option), wristband			
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 , cTÜVus, NoM, CE Class B, UKCA, EAC, CCC, BIS, RCM, BSMI, KC, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, SRRC, RCM, NCC • MFi 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 (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 failures: Minimum 1-inch overstrike area • Printer language: TSPL (standard), SBPL (downloadable)	
Factory Option	MFi Bluetooth 5.3			
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • 802.11 a/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 tear-off upgrade kit • HF RFID cutter upgrade kit	
User Option	• External label roll mount • KP-200 Plus keyboard display unit		• PDF Print Dongle • BP-4000 smart battery station	



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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	203mm (8") / second	152mm (6") / second
Max. Print Width	54mm (2.13")	56.9mm (2.24")
Max. Print Length	2,286mm (90")	1,016mm (40")
Enclosure	Clamshell with double-walled plastic	
Physical Dimension	138mm (W) x 172mm (H) x 210mm (D) 5.43" (W) x 6.77" (H) x 8.27" (D)	
Weight	1.3kg (2.87lbs)	
Label Roll Capacity	127mm (5") OD	
Processor	32-bit RISC CPU	
Memory	• 8 MB Flash memory • 16 MB SDRAM	
Interface	USB 2.0	
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 • 2 intuitive icon indicators	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable) • Head open sensor	
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Image® 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, TELEPENN, 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), rMQR Code	
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	15 - 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 - 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 , cTÜVus, NoM, CE Class A, UKCA, EAC, BSMI, CCC, BIS, RCM, Energy Star 3.2	
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	
User Option	• External label roll mount • 10mm narrow media adaptor	



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DH Series 2-Inch for Healthcare Specifications

Model	DH220THC	DH320THC
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	54mm (2.13")	56.9mm (2.24")
Max. Print Length	25,400mm (1,000")	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	• 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 • 802.11 a/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, 2.5A, 60W	
Operation Switch, Button, LED/LCD	• 1 power switch • 1 feed button • 1 pause button	• 1 reprint button • 3.5" color touch display, 480 x 320 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 Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code	
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), linerless media (for linerless option)	
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" - 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, RCM, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, RCM • MFi 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
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 (full cut and partial cut) • 802.11 a/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 keyboard display unit • 10mm narrow media adaptor	• 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	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	• Clamshell with double-walled plastic • Disinfectant-ready plastic, designed with an easy-to-clean surface and a sealed button interface • Antibacterial enclosure			
Physical Dimension	146mm (W) x 206mm (H) x 264mm (D) 5.75" (W) x 8.11" (H) x 10.39" (D)			
Weight	2.0kg (4.41 lbs)			
Label Roll Capacity	165mm (6.5") OD			
Processor	32-bit RISC CPU			
Memory	• 512 MB Flash memory • 256 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		• 802.11 a/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 • IEC 60601-1 certified power supply • Input: AC 100-240V, 2.0A, 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 • 3 intuitive icon indicators		• 1 power switch • 1 feed button • 1 pause button • 1 reprint button • 3.5" color touch display, 480 x 320 pixel	
Sensors	• Transmissive gap sensor • Black mark reflective sensor (position adjustable)		• Head open sensor • Save Labels sensor	
Real Time Clock	Standard			
Internal Font	• 8 alpha-numeric bitmap fonts • Monotype Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code			
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), linerless media (for linerless option), wristband			
Media Width	10mm - 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 , cTÜVus, NoM, CE Class B, UKCA, EAC, CCC, BIS, RCM, BSMI, KC, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, SRRC, RCM, NCC • MFi 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 (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 failures: Minimum 1-inch overstrike area • Printer language: TSPL (standard), SBPL (downloadable)	
Factory Option	MFi Bluetooth 5.3			
Dealer Option	• Peel-off module • Guillotine cutter (full cut and partial cut) • 802.11 a/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 tear-off upgrade kit • HF RFID cutter upgrade kit	
User Option	• External label roll mount • KP-200 Plus keyboard display unit		• PDF Print Dongle • BP-4000 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")	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) x 186mm (H) x 286mm (D) 8.78" (W) x 7.32" (H) x 11.26" (D)			
Weight	2.8kg (6.17lbs)			
Label Roll Capacity	127mm (5") OD			
Ribbon	• 300m long, max. OD 67mm, 1" core (ink coated outside) • 110m long, max. OD 40mm, 0.5" core (ink coated outside)			
Ribbon Width	40mm - 110mm (1.6" - 4.3")			
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		• 802.11 a/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 • 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 • 1 status indicator • 4 intuitive icon indicators		• 1 power switch • 1 feed button • 1 pause button • 1 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 Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code			
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	• Standard: 0.06mm - 0.19mm (2.36mil - 7.48mil) • Select on-metal RFID tags: 0.06mm - 1.35mm (2.36mil - 53.15mil)			
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, NoM, CE Class B, UKCA, EAC, CCC, BIS, RCM, BSMI, KC, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, WPC, RCM, NCC, KC, IMDA, NBTC • MFi Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, RCM, NCC, KC, IMDA, NBTC • RFID: FCC, IC, CE, UKCA, SRRC, WPC, RCM, NCC, KC, IMDA, NBTC, ANATEL, CRT			
Environmental Concern	Comply with 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 120mm 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	N/A		• RAIN UHF Passive (GS1 EPC Gen2 v2 / ISO 18000-63) • Minimum label/tag pitch 15.9 mm (0.625") • Standard/ Select On-Metal Tags/ Additional Tag Constructions • Select On-Metal Tag thickness up to 1.35mm (0.05"), tear mode only • Encoding failures: Minimum 1-inch overstrike area • Printer language: TSPL, ZPL • RFID Label Counter: Tracks good/bad labels	
Factory Option	MFi Bluetooth 5.0		• MFi 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) • Care label cutter (full cut) • 802.11 a/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 roll mount • KP-200 Plus keyboard display unit • 10mm narrow media adaptor		• PDF Print Dongle • BP-4000 smart battery station	



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TH Series 4-Inch for Healthcare Specifications

Model	TH240THC	TH340THC	TH240TRCHC	TH340TRCHC
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 • Disinfectant-ready plastic, designed with an easy-to-clean surface and a sealed button interface • Antibacterial enclosure			
Physical Dimension	223mm (W) x 186mm (H) x 286mm (D) 8.78" (W) x 7.32" (H) x 11.26" (D)			
Weight	2.8kg (6.17lbs)			
Label Roll Capacity	127mm (5") OD			
Ribbon	• 300m long, max. OD 67mm, 1" core (ink coated outside) • 110m long, max. OD 40mm, 0.5" core (ink coated outside)		100m long (ribbon cartridge)	
Ribbon Width	40mm - 110mm (1.6" - 4.3")		110mm (4.3")	
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		• 802.11 a/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, 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 Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code			
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	• Standard: 0.06mm - 0.19mm (2.36mil - 7.48mil) • Select on-metal RFID tags: 0.06mm - 1.35mm (2.36mil - 53.15mil)			
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		• Operation: 20°C to 40°C (68°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, KC, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, WPC, RCM, KC, IMDA, NBTC • MFi Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, RCM, KC, IMDA, NBTC • RFID: FCC, IC, CE, UKCA, SRRC, WPC, RCM, KC, IMDA, NBTC, ANATEL		• Printer: CB, FCC Class B, IC, cTÜVus, CE Class B, UKCA, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA • MFi Bluetooth: FCC, IC, CE, UKCA	
Environmental Concern	Comply with 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 120mm wide media	• Quick start guide • USB cable • Power cord	• External universal switching power supply • Media adaptor for 120mm 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 (GS1 EPC Gen2 v2 / ISO 18000-63) • Minimum label/tag pitch 15.9 mm (0.625") • Standard/ Select On-Metal Tags/ Additional Tag Constructions • Select On-Metal Tag thickness up to 1.35mm (0.05"), tear mode only • Encoding failures: Minimum 1-inch overstrike area • Printer language: TSPL, ZPL • RFID Label Counter: Tracks good/bad labels		N/A	
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) • 802.11 a/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 roll mount • KP-200 Plus keyboard display unit • 10mm narrow media adaptor		• PDF Print Dongle • BP-4000 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	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	208mm (W) x 170mm (H) x 235mm (D) 8.19" (W) x 6.69" (H) x 9.25" (D)			
Weight	2.1kg (4.63lbs)			
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 • 802.11 a/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 • 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 • 1 status indicator • 3 intuitive icon indicators		• 1 power switch • 1 feed button • 1 pause button • 1 reprint button • 3.5" color touch display, 480 x 320 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 Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code			
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), linerless media (for linerless option)			
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	• 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, NoM, CE Class B, UKCA, EAC, CCC, BIS, RCM, BSMI, KC, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, WPC, RCM, NCC, KC • MFi Bluetooth: FCC, IC, CE, UKCA, FAC, 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 (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 (full cut and partial cut) • 802.11 a/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 keyboard display unit • 10mm 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	25,400mm (1,000")	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	208mm (W) x 170mm (H) x 235mm (D) 8.19" (W) x 6.69" (H) x 9.25" (D)	
Weight	2.1kg (4.63lbs)	
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 • 802.11 a/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, 480 x 320 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 Image® true type font engine with one CG Triumvirate Bold Condensed scalable font • ARIALUNI.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, TELEPENN, 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), rMQR Code	
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), linerless media (for linerless option)	
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")
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, BSMI, KC, Energy Star 3.2 • Wi-Fi/Bluetooth: FCC, IC, CE, UKCA, FAC, SRRC, WPC, RCM, NCC, KC • MFi Bluetooth: FCC, IC, CE, UKCA, FAC, 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 (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 (full cut and partial cut) • 802.11 a/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 keyboard display unit • 10mm narrow media adaptor	• PDF Print Dongle • BP-4000 smart battery station



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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 (86Wh) 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: 81mm(W)x80mm(H)x297mm(D); 3.19"(W)x3.15"(H)x11.69"(D) • Base Housing: 200mm(W)x95mm(H)x294mm(D); 7.87"(W)x3.74"(H)x11.57"(D) • Printer Quick Release Plate: 183mm(W)x18mm(H)x262mm(D); 7.20"(W)x0.71"(H)x10.31"(D)
Weight	• Battery Pack: 1.17kg; 2.58lbs • Base Housing: 0.79kg; 1.74lbs • Printer Quick Release Plate: 0.36kg; 0.79lbs
Nominal Capacity	4000mAh, 86Wh
Interface	• 1 DC-in port for battery charging • 1 DC power plug cable for supplying power to the printer • 1 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, 0.5A • 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	550 cycles at 80% capacity retention
Safety Regulation	CB, FCC, ICES-003, CE, UKCA, RCM, BSMI, CCC, BIS, UN38.3
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS
Applicable Models	TH240 series, DH240 series, TH220 series, DH220 series, DH220L series (exclude DH220E series)
Limited Warranty	1 year

*Printing length may vary based on actual usage.







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