

UHF | RAIN - Desktop Printers **TSC - TH240T**

- High-speed, high-quality printing
- Plug-and-play
- Remote printer management
- Wide media & label compatibility
- Antimicrobial healthcare models available



UHF | RAIN - Desktop Printer Versatile, Future-Proof Printing

The TSC 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 minimises downtime during daily operations through comprehensive printer management tools (Internal Embedded Webpage, virtual control panel, TSC Console, and SOTI Connect), printer shutdown prevention, and supports network security configurations to manage printers efficiently.

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

Common Applications

- In-store tagging
- Retail pharmacy totes
- Expiration date tracking
- Food safety recall management
- Medical equipment tracking

TSC



TECHNICAL SPECIFICATIONS

Printer Specifications	TH240T
Resolution	8 dots / mm (203 dpi)
Printing Method	Thermal Transfer & Direct Thermal
Max. Print Speed	203mm (8") / second
Max. Print Width	108mm (4.25")
Max. Print Length	25,400mm (1,000")
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, 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 5.0 combo module (dealer option), USB Host, Bluetooth 5.0 (dealer option), Internal Ethernet, 10/100 Mbps, 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, 3.5" color touch display, 480 x 320 pixel
Sensors	Transmissive gap sensor, Ribbon end 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)
Media Width	15mm - 120mm (0.59" - 4.72")
Media Thickness	0.06mm - 0.19mm (2.36mil - 7.48mil)

TECHNICAL SPECIFICATIONS

Printer Specifications	TH240T
Media Core Diameter	25.4mm - 38.1mm (1" - 1.5")
Label Length	5mm - 25,400mm (0.20" - 1,000")
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, RCM, NCC, KC, IMDA, NBTC
Environmental Concern	Comply with RoHS, REACH, WEEE, China RoHS
Accessories	Quick start guide, 1" ribbon spindle x 2 for 300m ribbon roll, USB cable, 1" ribbon paper core, Power cord, Media adaptor for 120mm wide media, 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
RFID	RAIN UHF Passive (GS1 EPC Gen2 v2 / ISO 18000-63) Multi-position RF Antenna, under media Minimum label/tag pitch 15.9 mm (0.625") Standard/ Selected On-Metal Tags/ Additional Tag Constructions Encoding failures: Minimum 1-inch overstrike area Printer language: TSPL, ZPL RFID Label Counter: Tracks good/bad labels
Factory Option	MFi Bluetooth 5.0 • RAIN UHF Passive (GS1 EPC Gen2 v2 / ISO 18000-63)
Dealer Option	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 adapter, PDF Print Dongle