



HF | NFC - Desktop Printers TSC - DH220 Series

- Direct thermal, 203 or 300 DPI models
- 15mm to 60mm media width support
- Wi-Fi, Bluetooth, cutter, linerless options
- Optional HF RFID encoding
- Remote management via web, console, SOTI

HF | NFC - Desktop Printer The Handy Way to Conquer Label Printing

The TSC - DH Series 2-Inch direct thermal printers deliver versatile, flexible label printing in a compact and lightweight design, weighing just 1.6kg.

Plug-and-play print language emulation lets the firmware automatically identify major printer languages and start printing without changing templates. Comprehensive management tools (Internal Embedded Webpage, virtual control panel, TSC Console, SOTI Connect), shutdown prevention, and network security configurations minimise downtime, while self-diagnostics and toolless servicing keep maintenance simple.

High-precision printing, addable future-proof options, and linerless media support let businesses scale and adapt. The eco-friendly design features 100% recyclable packaging and plastic casing, with over 90% of components recyclable at end-of-life. A healthcare variant adds antimicrobial, disinfectant-ready casing and IEC 60601-1 compliant power.

Common Applications

- Inventory management
- Shipping label
- Pharmacy labeling
- Product labelling
- Track and trace



TECHNICAL SPECIFICATIONS

Model	DH220T		DH220L		DH220LT	
Resolution	8 dots / mm (203 dpi)					
Printing Method	Direct Thermal					
Max. Print Speed	203mm (8") / second					
Max. Print Width	54mm (2.13")					
Max. Print Length	25,400mm (1,000")					
Enclosure	Clamshell with double-walled plastic					
Physical Dimension	138mm (W) x 172mm (H) x 210mm (D)			146mm (W) x 206mm (H) x 264mm (D)		
Weight	1.6kg (3.53lbs)			2.0kg (4.41 lbs)		
Label Roll Capacity	127mm (5") OD			165mm (6.5") 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			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 5.0 (dealer option), MFi Bluetooth 5.0 (factory option)			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, 3.5" colour touch display, 480 x 320 pixel		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" colour touch display, 480 x 320 pixel	
Sensors	Transmissive gap sensor, Black mark reflective sensor (position adjustable), Head open sensor		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)					
Media Width	15mm - 60mm (0.59" - 2.36")			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")					
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			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, SRRC, RCM, NCC		

TECHNICAL SPECIFICATIONS

Model	DH220T	DH220L	DH220LT
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: 3 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 5.0 module, Linerless with cutter (full cut), Linerless with tear	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, 10mm narrow media adaptor, PDF Print Dongle, BP-4000 smart battery station		