



## TDM SERIES – Mobile Direct Thermal Printer

### Get Your Receipts Anywhere

TSC's new mobile barcode printer line, the TDM Series, is intelligently designed for on-the-go printing. Mobile printing is an excellent solution for any business that needs to print on demand. The TDM Series is equipped to operate across different platforms with multiple connectivity options. Its lightweight, durable and flexible design, coupled with ease of operation without sacrifice of functionality, is especially critical for retail and mobile point of sale (MPOS) applications.

The TDM Series' rugged palm-size design has passed extensive testing for consistent, long-lasting performance. And its real-time printer health status provides two important functions: 1) The self-diagnostic TPH Care Mechanism ensures stable, high-quality printouts every time, and 2) The TDM-30 Battery Management solution effectively monitors the charging status to maximize battery capacity. With the TDM-20 1130 mAh and TDM-30 3080 mAh battery, workers can use the printers for an entire shift without downtime.

The TDM Series has a wealth of tools that guarantees easy integration into your MPOS system: Bluetooth is MFi certified and can be connected with an NFC tag; ESC/POS language is supported and has an OPOS driver for POS systems; a smartphone application for both Android and iOS is available for browser-based applications; and Software Development Kits (SDKs) and printer languages are available for all your other software integration needs.

#### KEY FEATURES



##### Rugged Palm Size Design

- Drop test: 2.5 m with case; MIL-STD 810G standard
- IP54 (dust/water-resistant) rating with case
- Tumble test: 1.0 m with case



##### Flexibility in Various Media Support

- Optional media hanger for various media width ranging from 20 mm to 70 mm
- Various sensors for a wide selection of media types



##### Self-Diagnostic TPH Care Mechanism

- An advanced mechanism allows for real-time printhead health status to ensure stable and high-quality printouts for maximum cost-effectiveness



##### Smart Battery with TSC Printer Management

- Centralized battery health monitoring system ensures complete shifts
- Maximize battery lifetime to avoid hidden costs and downtime



##### Integrated Software Pack

- OPOS driver for POS applications
- With new iOS & Android APP, mobile configuration and web print becomes possible



##### Multiple Connectivity

- USB2.0 + MFi Bluetooth 5.0 + Passive NFC tag
- USB2.0 + 802.11 a/b/g/n Wi-Fi with Bluetooth 4.2 + Passive NFC tag

#### APPLICATIONS



##### Public Utilities

- Utility Billing/Meter Reading
- Parking Citations



##### Warehouse & Logistics

- Direct Store Delivery
- Proof of Delivery and Pickup



##### Entertainment & Hospitality

- Mobile Ticketing
- Table Side Ordering



##### Retail

- Receipt
- Field Sales/Repairs



##### Healthcare

- Point of Care
- Laboratory



##### Transportation

- Onboard Ticketing

# Mobile Printing For Your Business

## Key Benefits

### CERTIFIED RUGGED PALM SIZE DESIGN

The TDM Series has passed extensive testing – IP rating, drop and tumble tests to maximize its functionality in harsh environments. With an optional protective case, TDM Series printers are rated IP54 against dust and water in daily tasks. By simulating real-world workplaces for on-the-go mobile workers, the TDM Series has been certified with a 2.5 m drop test using its protective case, MIL-STD-810G standard drop test and a 1 m tumble test.



### SELF-DIAGNOSTIC TPH CARE MECHANISM

The TDM Series is equipped with a self-diagnostic TPH Care Mechanism, which includes an early warning function. By scanning and detecting any bad dots during the printing process, the TPH Care Mechanism proactively conducts a real-time TPH (Thermal Printhead) health check, maximizing printout quality and worker productivity while minimizing consumable waste.



### SMART BATTERY SOLUTION

The TDM-30 smart battery option lets you monitor your fleet of batteries for both charge level and number of charge cycles using the Battery Management System found in the TSC Printer Management Utility. This allows you to understand the battery status while in operation and to determine when batteries are aging and need to be replaced. The result is having the right number of batteries with the right charge capacity to keep operations running smoothly.



### INTEGRATED SOFTWARE PACK - OPOS/SDKs

The TDM Series not only supports OPOS, but also provides mainstream platform driver support for Windows, Android, iOS and WinCE/Mobile. Having the OPOS/SDKs software pack integrated into the TDM Series mobile printer allows users to easily use the library, saving programming time and increasing staff productivity. After integration, the customized software can be leveraged, tailored and optimized between POS terminals and printers for port communications, connections and transferring of print commands.



### SUPERIOR TSC MOBILE UTILITY

The TSC Mobile Utility enables mobile configuration and web printing via iOS and Android APP. It can be installed onto handheld devices to change remote printer settings and directly print from browser-based applications. This tool allows users' effortless access to website content and printing solutions through TSC printers via Bluetooth or Wi-Fi connections. To increase worker productivity, remote mobile configurations allow for real-time printer setting adjustments, status check and troubleshooting anywhere.



# TDM SERIES Accessories



| TDM-30 | TDM-20 | DESCRIPTIONS  | FACTORY OPTION | USER OPTION |
|--------|--------|---|----------------|-------------|
|        |        | <b>IP54-rated environmental case with shoulder strap</b><br>Add an extra layer of protection for harsh environments with a protective case. While in the case, the printer is IP54-rated for resistance to windblown water and dust. Includes shoulder strap. |                | •           |
|        |        | <b>Shoulder strap kit</b><br>Designed for carrying the printer directly without a protective case.  |                | •           |
|        |        | <b>Belt clip</b><br>Use the belt clip for a complete hands-free solution.   |                | •           |
|        |        | <b>1-slot docking cradle</b><br>Easily charge the printer without removing the battery.<br><i>*Please choose the correct printer for the docking cradle</i>   |                | *•          |
|        |        | <b>4-slot docking cradle</b><br>Charge multiple printers in either horizontal or vertical positions. Stand the cradle upright in areas where space is at a premium.<br><i>*Please choose the correct printer for the docking cradle</i>                       |                | *•          |
|        | N/A    | <b>1-slot battery charger</b><br>Use the 1-slot charger to quickly charge the battery without any downtime.   |                | •           |
|        |        | <b>4-slot battery charger</b><br>The 4-slot charger is well-suited for heavy-duty missions.   |                | •           |
|        | N/A    | <b>Li-ion smart battery</b><br>The Li-on smart battery works with TSC Printer Management Utility to monitor battery information, charge cycles, and remaining capacity.   |                | •           |
|        |        | <b>Vehicle mount kit</b><br>Easily mount the printer on a forklift.   | •              |             |
|        |        | <b>Linerless kit</b><br>The linerless kit suits linerless printing needs.   | •              |             |
|        | N/A    | <b>Media hanger kit</b><br>A flexible kit to accommodate various media widths.  |                | •           |
|        |        | <b>Media spacer kit</b><br>The media spacer kit is able to support specific media width applications.   |                | •           |

# TDM SERIES – Mobile Direct Thermal Printer

| PRINTER MODEL                          | TDM-30  | TDM-20  |
|--|---|---|
| Resolution                             | 8 dots/mm (203 DPI)   |   |
| Printing method                        | Direct Thermal  |   |
| Max. print speed                       | Up to 102 mm (4")/second  |   |
| Max. print width                       | 72 mm (2.83")   | 48 mm (1.89")   |
| Max. print length                      | 2,794 mm (110")   |   |
| Enclosure                              | Plastic   |   |
| Physical dimension                     | 105.0 mm (W) x 116.0 mm (H) x 49.5 mm (D)<br>4.13" (W) x 4.57" (H) x 1.95" (D)  | 79.0 mm (W) x 116.0 mm (H) x 36.5 mm (D)<br>3.11" (W) x 4.57" (H) x 1.44" (D)   |
| Weight (including battery)             | 0.375 kg (0.83 lbs)   | 0.215 kg (0.47 lbs)   |
| Drop specification                     | 1.8 m (5.9 ft), with IP54 case can be 2.5 m (8.2 ft)  |   |
| IP rating                              | IP42 (w/o case), IP54 (w/ case)   |   |
| Max. roll capacity                     | 40 mm (1.6") OD   | 30 mm (1.2") OD   |
| Processor                              | 32-bit RISC CPU   |   |
| Memory                                 | <ul style="list-style-type: none"> <li>• 16 MB Flash memory</li> <li>• 32 MB SDRAM</li> </ul>   |   |
| Interface                              | Either one selected<br><ul style="list-style-type: none"> <li>• USB 2.0 + MFi Bluetooth 5.0 + Passive NFC tag</li> <li>• USB 2.0 + 802.11 a/b/g/n wireless with Bluetooth 4.2 + Passive NFC tag</li> </ul>  |   |
| Power                                  | • 7.4V DC, 3080 mAh Li-ion rechargeable battery   | • 7.4V DC, 1130 mAh Li-ion rechargeable battery   |
| Operation switch, button               | • 3 buttons (On/off, feed, and cover-open)  |   |
| User interface                         | Either one selected<br><ul style="list-style-type: none"> <li>• 1 LED for printer status, 3 LEDs for battery status, 1 LED for wireless status</li> <li>• 1 LCD, 1 LED for printer status, 1 LED for wireless status</li> </ul>   | <ul style="list-style-type: none"> <li>• 1 LED for printer status, 3 LEDs for battery status, 1 LED for wireless status</li> </ul>  |
| Sensors                                | <ul style="list-style-type: none"> <li>• Head open sensor</li> <li>• Reflective sensor mode</li> <li>• Transmissive sensor mode (factory option)</li> </ul>   | <ul style="list-style-type: none"> <li>• Head open sensor</li> <li>• Reflective sensor</li> </ul>   |
| Internal fonts                         | <ul style="list-style-type: none"> <li>• 8 alpha-numeric bitmap fonts</li> <li>• One Monotype Imaging® CG Triumvirate Bold Condensed scalable font</li> </ul>   |   |
| Bar code                               | <ul style="list-style-type: none"> <li>• 1D bar code<br/>Code 39, Code 93, Code128UCC, Code128 subsets A.B.C, Codabar, Interleave 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, GS1 Data bar</li> <li>• 2D bar code<br/>PDF-417, Maxicode, DataMatrix, QR code, Aztec</li> </ul> |   |
| Printer language                       | TSPL-EZD (EPL2, ZPL2, DPL), ESC-POS or CPCL emulation   |   |
| Media type                             | <ul style="list-style-type: none"> <li>• Reflective sensor model: receipt paper, bline receipt paper (black mark in printing side) &amp; selected label</li> <li>• Transmissive sensor model: receipt paper, bline receipt paper (black mark in printing side or backside) &amp; label with gap.</li> </ul>   | <ul style="list-style-type: none"> <li>• Receipt paper, bline receipt paper (black mark in printing side) &amp; selected label</li> </ul>   |
| Media width                            | Max 80 mm (3.15")<br>*with media hanger: 20 ~ 70 mm (0.79" ~ 2.76")<br>(user option)  | Max 58 mm (2.28")   |
| Media thickness                        | 0.06 ~ 0.16 mm (2.4 ~ 6.3 mil)  | 0.06 ~ 0.10 mm (2.4 ~ 3.9 mil)  |
| Media height                           | Label: Min. 25.4 mm (1")  |   |
| Environment condition                  | Operation: -15 ~ 50°C (5 ~ 122 °F), 10 ~ 90% non-condensing<br>Storage: -30 ~ 70°C (-22 ~ 158 °F), 10 ~ 90% non-condensing  |   |
| Safety regulation with Bluetooth model | CB, FCC, IC, BC, NOM (IFETEL), CCC (SRRC), CE, EAC (FAC), NTRA, BIS (WPC), RCM, IMDA, NBTC, SDPPI, MIC, MSIP, BSMI (NCC), EN50498   |   |
| Safety regulation with Wi-Fi model     | CB, FCC, IC, CCC (SRRC), CE, EAC (FAC), BIS (WPC), RCM, BSMI (NCC), EN50498   |   |
| Environmental concern                  | Comply with RoHS, WEEE, REACH   |   |
| Accessories                            | <ul style="list-style-type: none"> <li>• Quick start guide</li> <li>• Belt clip</li> <li>• Li-ion battery</li> <li>• Power adapter</li> </ul>   |   |
| Limited warranty                       | <ul style="list-style-type: none"> <li>• Printer: 2 years</li> <li>• Printhead: 25 km (1 million inches) or 12 months which comes first</li> <li>• Platen: 50 km (2 million inches) or 12 months which comes first</li> </ul>   |   |
| Factory options                        | <ul style="list-style-type: none"> <li>• 802.11 a/b/g/n with Bluetooth 4.2</li> <li>• Vehicle mount kit</li> <li>• Printer ready for docking cradle</li> <li>• Linerless kit</li> <li>• Enhanced printhead</li> </ul>   | <ul style="list-style-type: none"> <li>• 802.11 a/b/g/n with Bluetooth 4.2</li> <li>• Vehicle mount kit</li> <li>• Printer ready for docking cradle</li> <li>• Linerless kit</li> </ul>   |
| User options                           | <ul style="list-style-type: none"> <li>• Micro type USB 2.0 cable</li> <li>• Li-ion battery</li> <li>• 12-60 VDC adaptor with cigarette lighter adaptor cable</li> <li>• 12-24 VDC automobile cigarette lighter plug</li> <li>• CD</li> </ul>   | <ul style="list-style-type: none"> <li>• Micro type USB 2.0 cable</li> <li>• Li-ion battery</li> <li>• 12-60 VDC adaptor with cigarette lighter adaptor cable</li> <li>• 12-24 VDC automobile cigarette lighter plug</li> <li>• CD</li> </ul> |



\* Complete user options please refer to above accessory table.



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