

# OmniLink® TM-m50 POS Thermal Receipt Printer



Receipt Printer

POS

## Sleek receipt printer with modern design and versatile connectivity.

**Modern industrial design** — compact 3" thermal receipt printer supports traditional, cloud-based and mPOS/tablet POS systems

**Connect to multiple devices** — printer can be dynamically shared by legacy POS terminals, tablets and mobile devices, as well as cloud servers and POS peripherals

**Triple-interface connectivity to help future-proof growing businesses** — maximum flexibility with built-in USB, Ethernet and Serial ports, plus options for wireless technologies

**Online ordering ready** — Server Direct Print technology enables the printer to retrieve data from the Internet

**Compatible with cloud applications** — via OmniLink Merchant Services

**Distributed proximity-based printing** — beacon support using BLE (Bluetooth Low Energy)<sup>1</sup>; NFC (Near Field Communication)<sup>2</sup> technology for easy pairing with mobile devices

**Fast, reliable receipt printing** — speeds up to 350 mm/sec; printhead life of 200 km<sup>3</sup>, auto cutter life of 2.2 million cuts<sup>3</sup>

**Smart connectivity** — share data using a single USB cable<sup>4</sup> (cable not included); charge smartphones and tablets (Bluetooth® model only)

**USB-Network-Tethering<sup>5</sup>** — provides network connectivity from the printer to a tablet (Bluetooth model only)

**Print**

**Print Method** Thermal  
**Print Speed** 350 mm/second  
**Print Resolution** 180 dpi  
**Print Direction** Vertical and horizontal

**Print Fonts**

**Fonts/Column Capacity** Font A: 12 x 24, 42 cpl (default); Font B: 9 x 24, 56 cpl, Kanji Font A: 24 x 24, 24 cpl; Kanji Font B: 16 x 16, 32 cpl (Korean)  
**Character Size** Font A: 1.41 mm x 3.39 mm; Font B: 0.99 mm x 3.39 mm; Kanji Font A: 3.39 mm x 3.39 mm; Kanji Font B: 2.26 mm x 2.26 mm

**Character Set** 95 Alphanumeric, 18 International, 128 x 43 Graphic, Japanese (11,233 characters of JIS X0213:2004, 1 special character), Simplified Chinese (28,553 characters of GB18030-2000), Traditional Chinese (13,535 characters of Big5), Korean (8,366 characters of KSC5601)

**Barcode** UPC-A, UPC-E, JAN8/EAN8, JAN13/EAN13, Code39, Code93, Code128, ITF, CODABAR (NW-7), GS1-128, GS1 DataBar, Code 128 Auto

**Two-Dimensional Symbol Printing** PDF417, QR Code, MaxiCode, DataMatrix, Aztec Code, Two-Dimensional GS1 DataBar, Composite Symbology

**Media Handling**

**Media Dimensions**  
80 mm: 79.5 ± 0.5 x 83 mm  
3.13" ± 0.02" (width) x 3.27" (roll diameter)  
58 mm: 57.5 ± 0.5 x 83 mm  
2.26" ± 0.02" (width) x 3.27" (roll diameter)  
**Thickness** 48 – 80 µm  
**Type** Thermal roll paper  
**Paper Feed Method** Friction feed  
**Paper Back Feed** Yes  
**Width** 3.12"/79.5 mm  
**Paper Loading** Drop-in  
**Roll Diameter (Max.)** 3.27"/83 mm  
**Core Diameter (Min.)** 0.71"/18 mm  
**Paper Guide** Yes  
**Auto Cutter** Yes

**Connectivity**

**Interface (Ethernet model)** Built-in USB, built-in Ethernet (10/100Base-T/TX) +  
- Serial  
- Bluetooth 3.0+EDR  
- Wireless (USB wireless dongle) OT-WL06 (802.11 a/b/g/n/ac, 2.4 GHz/5 GHz)  
- Printer Discovery NFC (Near Field Communication)<sup>2</sup>  
- Simple AP (wireless network)  
**Supported Operating Systems** iOS<sup>®</sup>, Android<sup>™</sup>, Windows<sup>®</sup>, Mac<sup>®</sup> OS X<sup>®</sup>, GNU (Linux<sup>®</sup>)  
**Easy Setting Function** NFC<sup>2</sup>, QR code  
**Easy Setting Tool** TM Utility (iOS, Android), TM-m50 Utility (Windows), EpsonNet Config, TM Bluetooth Connector

**Reliability<sup>3</sup>**

**Printer Reliability** 20 million printing lines  
MTBF: 360,000 hours  
MCBF: 70,000,000 lines  
**Auto Cutter Reliability** 2.2 million cuts

**General**

**NV Bit Image Memory** 12KB (max.)  
**NV Graphics** 384KB (max.)  
**Receive Buffer** 4KB or 45byte  
**Development Kit** Epson<sup>®</sup> ePOS<sup>™</sup> SDK (iOS, Android, JavaScript), TM Print Assistant (iOS, Android), OPOS ADK/OPOS ADK for .NET (Windows), JavaPOS ADK (Windows, Linux)  
**Drivers** Epson Advanced Printer Driver (APD), TM Virtual Port Driver, Mac Printer Driver, CUPS Driver  
**Software** TM Utility (iOS, Android), TM-m50 Utility (Windows Desktop), EpsonNet Config (Windows, Mac), TM Bluetooth Connector, Deployment Tool, Monitoring Tool, TM-m50 Firmware Updater

**Audible Alert** Optional External Buzzer (OT-BZ20)  
**LED Indicators** Orange LEDs – Error, Paper Out; Blue LEDs – Power, Ethernet, Wireless, Bluetooth

**Sensors** Paper End, Cover Open, Near-End Sensor

**D.K.D. Function** Yes

**Power Consumption** Operating 39.1 W, Standby 1.6 W (AC 115 V/60 Hz)

**Power Supply** Adapter PS-180 (Serial and Wireless models), Adapter PS-V (Bluetooth model)

**Power Saving** Yes

**Temperature** 5 °C to 45 °C

**Relative Humidity** 10 – 90%

**Acoustic Noise Level** 55 db

**Standards and Approvals** EMI FCC Class A, ICES-003 Class A Safety Standard UL62368-1/CSA C22.2 No.62368-1

**Dimensions (W x D x H)** 5" x 5" x 5"

127 mm x 127 mm x 135 mm

**Weight** 2.87 lb/1,300 g

**Color** ENB9 (Epson White), EBCK (Epson Black)

**Cash Drawer Kick** Yes

**USB-Network-Tethering<sup>5</sup>** Yes (select SKUs)

**Smart Device Charging** Yes (2.1 A) (select SKUs)

**Data Communication** iOS and Android<sup>1</sup> (Bluetooth model only)

**USB POS Peripheral Device Support** 1 or 3 (varies by model)

**Eco Features**

Power-Saving Mode  
ENERGY STAR<sup>®</sup> qualified (select SKUs)  
RoHS compliant  
Recyclable product<sup>6</sup>  
Epson America, Inc. is a SmartWay<sup>®</sup> Transport Partner<sup>7</sup>

**What's in the Box<sup>\*</sup>**

OmniLink TM-m50, Power Supply - Adapter PS-180 with AC Cable or Adapter V with AC Cable (varies by model), Power Switch Cover, Starter Receipt Roll, Setup Guide, 58 mm Roll Paper Guide

\*Contents vary by individual SKU.

**Warranty**

4-year limited warranty; optional extended warranty available

**Epson Preferred<sup>SM</sup> Plus Extended Service Plans<sup>8</sup>**

1-Year Return for Repair	EPPSDEXTA1
1-Year SITA Coverage	EPPSDSITAA1
2-Year SITA Coverage	EPPSDSITAA2
3-Year SITA Coverage	EPPSDSITAA3
4-Year SITA Coverage	EPPSDSITAA4
5-Year SITA Coverage	EPPSDSITAA5
1-Year Renewal SITA Coverage Extension	EPPSDSITAA1S

**Ordering Information**

Model Number	Interfaces	Color	Part Number
<b>Epson White</b>			
TM-m50	Bluetooth	ENB9	C31CH94011
TM-m50	Serial	ENB9	C31CH94031
TM-m50	Wireless	ENB9	C31CH94A9991
<b>Epson Black</b>			
TM-m50	Bluetooth	EBCK	C31CH94031
TM-m50	Serial	EBCK	C31CH94032
TM-m50	Wireless	EBCK	C31CH94A9981

Accessories	Part Number
Wall Mounting Brackets	OT-WH30
External Buzzer	OT-BZ20
Customer Display	DM-D30
Wireless USB Adapter	OT-WL06

For additional connectivity options, please contact your Epson representative.



TM-m50 Serial



TM-m50 Bluetooth

All images simulated.

<sup>1</sup> Requires the use of a beacon dongle connected to TM-m50 printer via the USB-A port. Supports only Apple<sup>®</sup> iBeacon<sup>®</sup> compliant format. The Epson-approved dongle is Laird model BT820. | <sup>2</sup> NFC tag requires use of a device that includes NFC reader, and may require additional software. | <sup>3</sup> Rated printhead and cutter lives are only estimates based on normal use of the printer with the following media only, with printer operated at room temperature and normal humidity: Model KT55FA: Papierfabrik August Koehler SE; Model PD160R: Oji Imaging Media Co., Ltd.; Model TF50KS-Y: NIPPON Paper Industries Co., Ltd. Epson's statements about reliability levels are not warranties of the media or Epson's printers, and the only warranties for printers are the limited warranty statements for each printer. See [www.epson.com/testedmedia](http://www.epson.com/testedmedia) for more information on Tested Media. | <sup>4</sup> Feature available for iOS devices and Android devices running Android 10 or later. | <sup>5</sup> Only works with iOS devices. | <sup>6</sup> For convenient and reasonable recycling options, visit [www.epson.com/recycle](http://www.epson.com/recycle) | <sup>7</sup> SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency. | <sup>8</sup> See individual service plan for details.

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