

# Epson® OmniLink® TM-T88VII Single-station Thermal Receipt Printer

Receipt Printer

POS



## The fastest POS receipt printer<sup>1</sup> with advanced connectivity and online ordering capability.

**Ultra fast transaction times** — industry-leading print speeds up to 500 mm/sec<sup>1</sup> and high-speed auto cutter

**Reliability you can count on** — 4-year limited warranty; easy-to-clean, water-resistant enclosure; long printhead and auto cutter life<sup>2</sup>

**Connect to multiple devices simultaneously** — using multiple interfaces, printer can be dynamically shared by PC-POS terminals, tablets and mobile devices as well as cloud servers

**Multi-interface support** — built-in USB and Ethernet, optional serial, powered USB, parallel and wireless connectivity ensure maximum flexibility and futureproofing

**Secure wireless connection** — supports the latest Wi-Fi® security standard (WPA3)

**Online ordering ready** — Server Direct Print technology allows the printer to retrieve orders from a web server and print a receipt without requiring POS software integration

**POS peripheral support** — supports POS peripherals including barcode scanners, customer displays, and more

**Easy setup and configuration** — streamline the setup and replacement processes using Epson TM Utility; vertical mounting kit provides flexible configuration options

**Easy to understand** — status LEDs and network diagnostic sheet improve on-site network troubleshooting

**Advanced paper-saving functions** — top-margin and character-height reduction features help reduce paper usage by up to 49 percent<sup>3</sup>

**Print**

**Print Method** Thermal line printing  
**Print Speed**<sup>1</sup> 500 mm/sec (19.7"/sec) max. for graphics and text  
**Print Resolution** 180 dpi

**Print Fonts**

**Fonts** Font A (default): 12 x 24 (including 2-dot horizontal spacing); 10 x 24 (including 1-dot horizontal spacing)  
Font B: 9 x 17 (including 2-dot horizontal spacing)  
Kanji Font A: 24 x 24 (including 0-dot horizontal spacing); 20 x 24 (including 2-dot horizontal spacing)  
Kanji Font B: 16 x 16 (including 0-dot horizontal spacing)

**Column Capacity**

Font A/B (ANK): 80mm mode 42/48/56 columns  
58mm mode: 30/36/40 columns  
Kanji Font A/B: 80mm mode: 21/24/32 columns  
58mm mode: 15/18/22 columns

**Character Set** 95 Alphanumeric, 18 International, 128 x 43 Graphic, Japanese (6,879 characters of JIS X0208-1990, 845 special characters), Simplified Chinese (28,553 characters of GB18030-2000), Traditional Chinese (13,502 characters of Big5), Korean (8,224 characters of KSC5601)

**Barcode** UPC-A, UPC-E, JAN8/EAN8, JAN13/EAN13, Code39, Barcode93, 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  
**Paper Loading** Drop-in

**Roll Diameter (Max.)** 3.27"/83 mm  
**Core Diameter (Min.)** 0.71"/18 mm

**Paper Guide** Yes  
**Auto Cutter** Yes  
**Near-end Sensor** Yes

**Connectivity**

**Interface (Fixed Interface Model)** Built-in USB, Built-in Ethernet (10/100Base-T/TX) + Wireless Option (USB wireless dongle) OT-WL06 (802.11 a/b/g/n/ac, 2.4 GHz/5 GHz)

**Interface (Connect-It™ (UIB) Model)** Built-in USB, Built-in Ethernet (10/100Base T/TX) + UIB (Serial, Parallel, Powered USB, Wireless)

**Printer Discovery** NFC (Near Field Communication<sup>4</sup>), Simple AP (wireless network)

**Communication Protocols** ESC/POS<sup>5</sup>, ePOS™ Print Service (Ethernet/Wireless), Server Direct Print (Ethernet/Wireless)

**Network Security**

Security:  
WPA-PSK, WPA2-PSK/EAP, WPA2-EAP: EAP-TLS, WPA3-SAE, WPA3-Enterprise, PEAP/MSCHAPv2, PEAP/TLS

**Connectivity (Continued)**

Port Open/Close Setting  
IP Address Filtering  
**Printing from a Mobile Device**  
Wireless (802.11): iOS<sup>®</sup>, Android™ and Windows<sup>®</sup> Operating Systems  
mPOS-friendly Settings (default): DHCP Enabled, DNS Enabled, IP Printing Enabled  
**Easy Setting Function** NFC<sup>4</sup>, QR Code  
**Easy Setting Tool** TM Utility (iOS, Android), TM-T88VII Utility (Windows)

**Reliability**<sup>2</sup>

**Printer Reliability** 20 million printing lines  
MTBF 360,000 hours  
MCBF 70,000,000 lines  
**Thermal Head Life** 200 km  
**Auto Cutter Reliability** 3.0 million cuts

**General**

**Data Buffer**  
Receive: 45 bytes or 4KB, selectable  
User-defined: 12KB  
Macro: 2KB  
NV Graphics: 384KB  
NV User: 1KB  
**Audible Alert** Optional External Buzzer (OT-BZ20)  
**LED Indicators** Orange LEDs – Error, Paper Out; Blue LEDs – Power, LAN, Wireless  
**Sensors** Paper End, Cover Open, Near-end Sensor  
**D.K.D. Function** Yes  
**Power Consumption** Operating 27.9 W (UIB Model), 28.6 W (Fixed Interface Model), Standby 1.4 W (Both Models), Power Source 24 VDC +/- 7%  
**Power Supply** Adapter PS-190 (Included on Select SKUs)  
Adapter PS-180 (Compatible, not Included)  
**Power Saving** Yes  
**Temperature** 5 °C to 45 °C (41°F to 113°F)  
**Relative Humidity** 10 – 90%  
**Acoustic Noise Level** 52 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)** 5.71" x 7.68" x 5.83"  
(145 x 195 x 148 mm)  
**Weight** 3.74 lb/1.7 kg  
**Color** ENB9 (Epson White), EBCK (Epson Black)  
**Cash Drawer Kick** Yes  
**USB POS Peripheral Device Support** 1 or 2 (varies by model)

**Eco Features**

Power-saving Mode  
ENERGY STAR<sup>®</sup> qualified (select SKUs)  
RoHS compliant  
Recyclable product<sup>5</sup>  
Epson America, Inc. is a SmartWay<sup>®</sup> Transport Partner<sup>6</sup>

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

Epson OmniLink TM-T88VII Printer, Thermal Roll Paper (starter roll for testing), Power Switch Cover, Connector Cover, Bottom Cover for Connector Cover, Roll Paper Guide, Screws, Setup Guide, AC Adapter w/ AC Cord, CD (drivers, utilities and documentation)

\*Contents vary by individual SKU.

**Software and Utilities**

ePOS-Print (XML over HTTP); WPA/WPA2/WPA3-Personal/Enterprise  
ePOS-Display  
Server Collaboration: Server Direct Print, Status Notification  
Backup/Restore: TM Utility (Windows)  
**OS/Language Support**  
Microsoft<sup>®</sup> Windows (APD, OPOS, OPOS for .NET, JavaPOS)  
Microsoft Windows 8.1/iOS/Android (ePOS-Print SDK)  
Mac<sup>®</sup> OS X<sup>®</sup>  
Linux (CUPS, JavaPOS)

**Warranty**

4-year limited warranty; optional extended warranty available

**Ordering Information**<sup>\*\*</sup>

| Model Number  | Interfaces  | Part Number  |
|---|-------------|--------------|
| <b>Standard Model (Fixed USB + Ethernet Interfaces)</b> |             |              |
| <b>Epson Black</b>                                      |             |              |
| OmniLink TM-T88VII                                      |             | C31CJ57052   |
| OmniLink TM-T88VII                                      | Wireless    | C31CJ57A9922 |
| <b>Epson White</b>                                      |             |              |
| OmniLink TM-T88VII                                      |             | C31CJ57051   |
| OmniLink TM-T88VII                                      | Wireless    | C31CJ57A9932 |
| <b>Connect-It (UIB) Model</b>                           |             |              |
| <b>Epson Black</b>                                      |             |              |
| OmniLink TM-T88VII                                      | Serial      | C31CJ57012   |
| OmniLink TM-T88VII                                      | Parallel    | C31CJ57022   |
| OmniLink TM-T88VII                                      | Powered USB | C31CJ57032   |
| OmniLink TM-T88VII                                      | Wireless    | C31CJ57A9971 |
| <b>Epson White</b>                                      |             |              |
| OmniLink TM-T88VII                                      | Serial      | C31CJ57A9981 |
| OmniLink TM-T88VII                                      | Parallel    | C31CJ57A9951 |
| OmniLink TM-T88VII                                      | Powered USB | C31CJ57A9941 |
| OmniLink TM-T88VII                                      | Wireless    | C31CJ57A9961 |

\*\* All models have built-in USB and Ethernet interfaces.

**Accessories**

| Accessories            | Model Number |
|------------------------|--------------|
| Wall Mounting Brackets | OT-WH10      |
| External Buzzer        | OT-BZ20      |
| Customer Display       | DM-D30       |
| Customer Display       | DM-D70       |
| Wireless USB Adapter   | OT-WL06      |
| Power Supply Cover     | OT-BX88VII   |

For additional connectivity options, please contact your Epson representative.

**Epson Preferred<sup>SM</sup> Plus Extended Service Plans<sup>7</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 |



1 Compared to single station thermal receipt printers available in the U.S. as of June 2021, based on manufacturers' published specifications. Speed based on using 80 mm wide media only and Epson's PS-190 or PS-180 power supply. Configurations not including the PS-190 or PS-180 will have a default print speed of 450 mm/sec. | 2 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-EY: 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. | 3 Paper savings depend on the text and graphics printed on the receipt. | 4 NFC tag requires use of a device that includes NFC reader, and may require additional software. | 5 For convenient and reasonable recycling options, visit [www.epson.com/recycle](http://www.epson.com/recycle) | 6 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency. | 7 See individual service plan for details.

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**Epson America, Inc.**  
3131 Katella Ave., Los Alamitos, CA 90720

**Epson Canada Limited**  
185 Renfrew Drive, Markham, Ontario L3R 6G3

**www.epson.com**  
**www.epson.ca**

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