

Print

Print Method Thermal
Print Speed² 500 mm/sec
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 (8,224 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 µm – 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 (Maximum) 3.27"/83 mm
Core Diameter (Minimum) 0.71"/18 mm
Paper Guide 80 mm (default), 58 mm spacer included
Auto Cutter Partial cut (default) or full cut

Connectivity

Interface
 USB Type-B (USB 2.0 FS)
 Ethernet (10/100Base-T/TX)
 Serial (RS-232C)
 USB Type-A peripheral device port x 1
Supported Operating Systems iOS[®], Android[™], Windows[®],
 Mac[®] OS X[®], GNU (Linux[®])
Easy Setting Function NFC⁵, QR code
Easy Setting Tool TM Utility (iOS, Android), TM-m50II Utility
 (Windows), EpsonNet Config

Reliability¹

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

General

Paper Exit and Loading Top or Front
Spill Resistance IPX2 rated (front exit only)
NV Bit Image Memory 12KB (maximum)
NV Graphics 384KB (maximum)
Receive Buffer 4KB or 45bytes
Development Kit Epson[®] ePOS[™] 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-m50II Utility (Windows
 Desktop), EpsonNet Config (Windows, Mac), Deployment Tool,
 Monitoring Tool, Epson Firmware Updater
Audible Alert Optional External Buzzer (OT-BZ20)
LED Indicators Power, Error, Paper, Ethernet
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 PS-190
Power Saving Yes
Temperature 5 °C to 45 °C
Relative Humidity 10% – 90%
Acoustic Noise Level 55 dBA
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 128 mm x 129 mm
Weight 2.87 lb/1,300 g
Color ENB9 (Epson White), EBCK (Epson Black)
Cash Drawer Kick Yes
Cloud Printing Ready³ Via Server Direct Print technology
USB POS Peripheral Device Support 1

Eco Features

Power-Saving Mode
 ENERGY STAR[®] qualified (select SKUs)
 RoHS compliant
 Recyclable product⁶
 Epson America, Inc. is a SmartWay[®] Transport Partner⁷

What's in the Box

OmniLink TM-m50II, Power Supply PS-190 with AC Cable,
 Starter Receipt Paper Roll, Setup Guide, 58 mm Roll Paper Guide

Warranty

4-year limited warranty; optional extended warranty available

Epson PreferredSM Plus Extended Service Plans⁸

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	Color	Part Number
Epson White TM-m50II	ENB9	C31CK52001
Epson Black TM-m50II	EBCK	C31CK52002

Accessories	Product Name
Wall Mounting Bracket (OT-WH30)	C32C881017
External Buzzer (OT-BZ20)	C32C890634
Color Customer Display White (DM-D70 White)	A61CH62101
Color Customer Display Black (DM-D70 Black)	A61CH62111
Customer Display White (DM-D30 White)	A61CF26101
Customer Display Black (DM-D30 Black)	A61CF26111
Wireless USB Adapter (OT-WL06)	C32C891321
Proximity Beacon Adapter (BT-820)	C32C824A8761

1 Epson's statements about reliability levels are only estimates, based on normal use of the printer using tested media only. See www.epson.com/testedmedia for more information on Tested Media. These reliability statements are not warranties of the media or Epson's printers, and the only warranties for printers are the limited warranty statements for each printer. | 2 Speed based on using approved Epson media. For more information, please visit www.epson.com/testedmedia | 3 Requires an Internet network connection. | 4 Paper savings depend on the text and graphics printed on the receipt. | 5 NFC tag requires use of a device that includes NFC reader, and may require additional software. | 6 For convenient and reasonable recycling options, visit www.epson.com/recycle | 7 SmartWay is an innovative partnership of the U.S. Environmental Protection Agency that reduces greenhouse gases and other air pollutants and improves fuel efficiency. | 8 See individual service plan for details.

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