M/BA-T500II Series
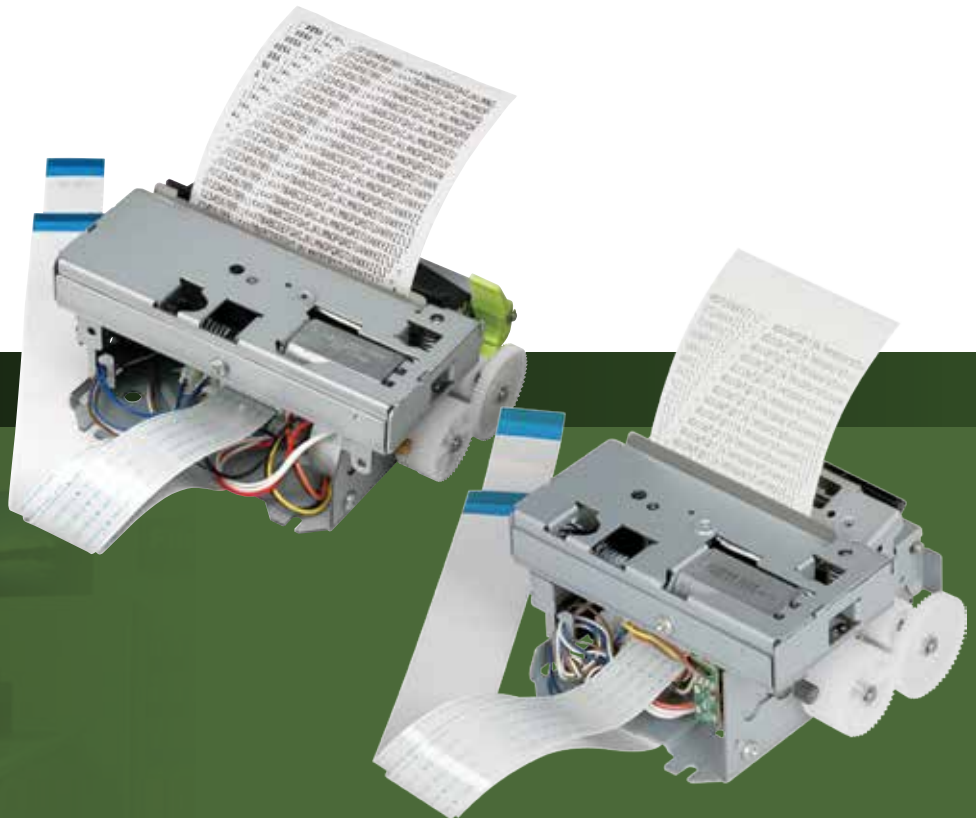## Embedded Unit

High-Speed Direct Thermal Printer Mechanism

M-T500II Series

Super fast printing Max.250 mm/s
High reliability inherited from M-T500 Series
Same size as M-T500 Series
Fewer paper jam with paper jam sensor

BA-T500II Series

Smaller in size
Designed to optimize the M-T500II Series performance

Epson's M-T500II Series printers offer the performance, high reliability and easy integration you need to get into production quickly and keep your customers satisfied for years to come.
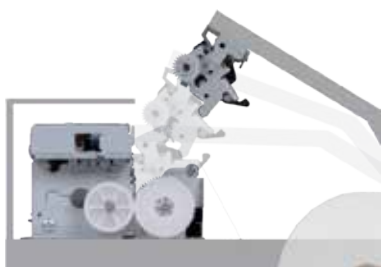
With high speed and durability, the M-T500II series is well suited for high transaction and graphical applications such as ATMs, Kiosks and gaming.

M-T500Ⅱ Series

M-T532Ⅱ
(Straight paper path type)

M-T523Ⅱ
(Separate paper path type)

Fast Printing
M-T500II Series can print both text and graphics at a speed of up to 250 mm/s – 67% faster than its predecessor the M-T500.

High Performance and Reliability
M-T500II Series inherits the same high reliability as M-T500 Series; 37 million lines for MCBF. Incorporating years of industry leading, thermal printer experience, Epson's durable, field-proven design ensures reliable performance, transaction after transaction, year after year.

Same size as M-T500 Series
M-T500II series has the same external dimensions as M-T500 series, so it is easy to replace the mechanism*.

*When replacing the mechanism, you will alsoneed to replace the control board with BA-T500II.
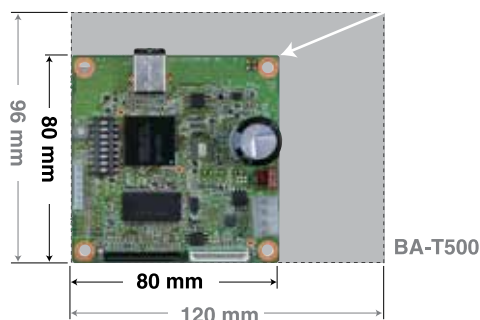
Fewer paper jams with paper jam sensor
In addition to its improved structure to avoid paper jams, the M-T500II features a newly added paper jam sensor. If used with BA-T500II series, it prevents paper from winding around the paper feed rollers.

BA-T500Ⅱ Series　　(Control Board)

BA-T500ⅡU

96 mm
80 mm
80 mm
120 mm
BA-T500

BA-T500II Series (Control Board)

Smaller size
The BA-T500II Series' external size is half that of its predecessor the BA-T500, making it more compact for installation.

Optimum Performance
The circuitry and firmware is specifically designed for the M-T500II series to provide optimum performance. The commands are upward compatible, so you can replace an existing controller board without changing the current application program. Furthermore, additional features are included such as functions to acquire the paper jam sensor's status, and to stop printing automatically when the sensor detects abnormality. A new interface, Ethernet, is also included.

OPTIONS

Connector Cable Unit
DC-T500

The DC-T500 enables the printer to use the power supply unit PS-180. By attaching the connector cable unit DC-T500, you can use the Epson standard power supply unit PS-180.

Power Supply Unit
PS-180

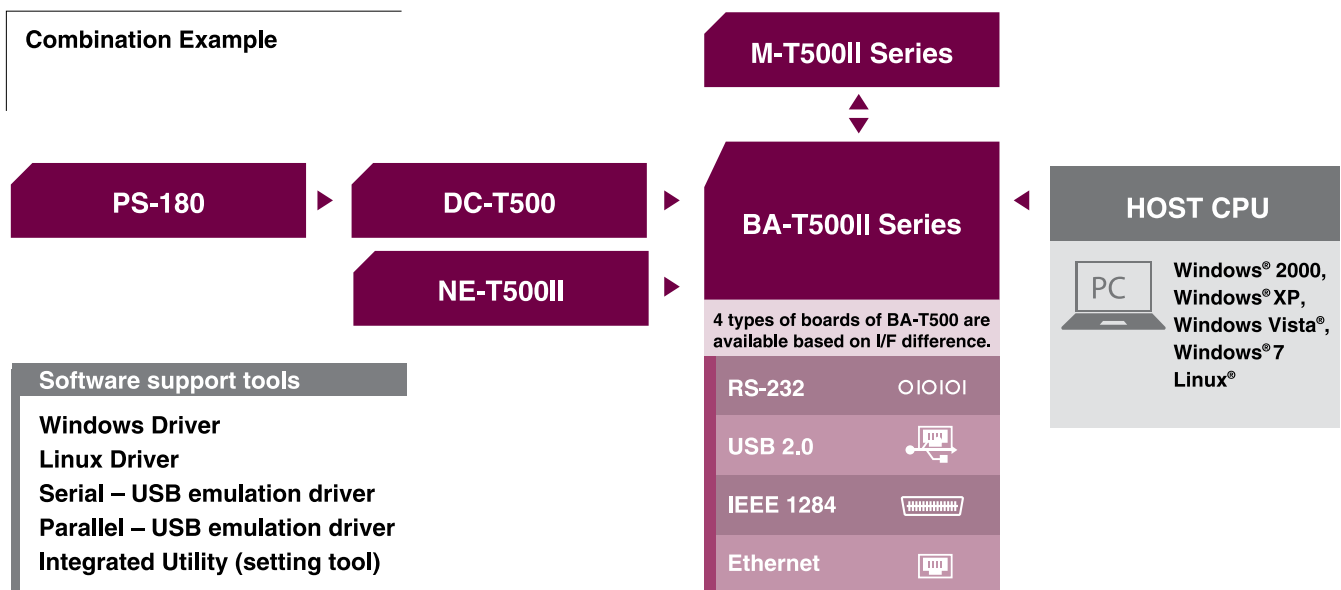| Input	100 - 240 VAC
Output	24 VDC, 2.0 A
Plug	3P power jack
Length of DC cable	1500 mm
Safety Standard	UL, CE marking, PSE, GS

Paper Near End Sensor Unit
NE-T500Ⅱ

The NE-T500II enables the paper near end function in the M/BA-T500II series, which reduces man-hours used in paper replacement, as well as the cost of operation.

Wide Variety Of Hardware And Software For Your System Configuration

Combination Example

| PS-180 | ▶ | DC-T500 | ▶ |
| NE-T500II | ▶ |

M-T500II Series

▲▼

BA-T500II Series

4 types of boards of BA-T500 are available based on I/F difference.

RS-232	OIOIOI
USB 2.0	
IEEE 1284	
Ethernet	

HOST CPU

PC

Windows® 2000,
Windows® XP,
Windows Vista®,
Windows® 7
Linux®

Software support tools

Windows Driver
Linux Driver
Serial – USB emulation driver
Parallel – USB emulation driver
Integrated Utility (setting tool)

Epson Advanced Printer Drivers

Solution from Epson

Kiosk
- PC connectivity
- Quick receipt issuance
- Compact unit

Typical Terminal Construction

Printer
Monitor
PC

Lottery Machine
- Quick receipt issuance
- Durable and reliable
- Low sensitivity paper can be used

Typical Terminal Construction

PC
Monitor
Printer

Ticket Machine
- Thick paper can be used
- Low sensitivity paper can be used
- Slim unit

Typical Terminal Construction

Card Reader
PC
Monitor
Printer

ATM
- Big paper roll diameter
  (Max. 254mm {10 inches})
- Durable and reliable
- Flexibility in placement

Typical Terminal Construction

PC
Monitor
Keyboard
Printer
Cash Box

M-T500Ⅱ Series

	M-T512IIA	M-T513IIA	M-T522IIA	M-T523IIA	M-T532IIA	M-T533IIA	M-T542IIA	M-T543IIA
Printing Method	Thermal line							
Paper Path	Straight	Separate	Straight	Separate	Straight	Separate	Straight	Separate
Resolution	203 dpi							
Print Speed	Max. 250 mm/s							
Paper Width	57.5 ± 0.5 mm		59.5 ± 0.5 mm		79.5 ± 0.5 mm		82.5 ± 0.5 mm	
Max Roll Dia.	Max. 254 mm							
Paper Thickness	0.056 to 0.150 mm	0.056 to 0.096 mm	0.056 to 0.150 mm	0.056 to 0.096 mm	0.056 to 0.150 mm	0.056 to 0.096 mm	0.056 to 0.150 mm	0.056 to 0.096 mm
Power	24 VDC ± 2.4 V							
Power Consumption	Approx. 2.2 A (mean current)				Approx. 3.0 A (mean current)			
Operating Temperature	-20 to 70°C (Print quality is guaranteed from 5 to 50°C)							
Operating Humidity	10 to 80 %							
MCBF	37,000,000 lines							
Printer Life	Mechanism : 15,000,000 lines, Thermal head : 100 km							
Reliability of Cutter	1,000,000 cuts (750,000 cuts when 30°C or above, and 60 %RH or above)							
Overall Dimensions	102.9 (W) × 91.9 (D) × 57.5 (H) mm				126.9 (W) × 91.9 (D) × 57.5 (H) mm	126.9 (W) × 94.9 (D) × 57.5 (H) mm	126.9 (W) × 91.9 (D) × 57.5 (H) mm	126.9 (W) × 94.9 (D) × 57.5 (H) mm
Mass	Approx. 450 g				Approx. 510 g	Approx. 540 g	Approx. 510 g	Approx. 540 g
Autocutter	Scissors-type autocutter Mounted (Full cut or Partial cut)							
Power Supply	PS-180 (option)							
Black Mark Detector	Option							
Paper Jam Detector	Standard	Option	Standard	Option	Standard	Option	Standard	Option

dpi: dots per 25.4 mm (dots per inch)

BA-T500Ⅱ Series

	BA-T500IIS	BA-T500IIP	BA-T500IIU	BA-T500IIE
Supported Printer	M-T500II Series			
Printing Character	Text (Europe Symbol available), Bar code, Graphics			
Print Font	ANK, JIS X0208-90, GB18030-80, BIG5, KSC-5601C			
Font	ANK FontA : 12 × 24, Font B : 9 × 17 / Kanji FontA : 24 × 24, FontB(JIS/KSC) : 16 × 16			
Column Capacity	M-T512II, M-T513II (Paper Width : 57.5mm) ANK FontA : 36 / ANK Font B : 48 M-T522II, M-T523II (Paper Width : 59.5mm) ANK FontA : 37 / ANK Font B : 49 M-T532II, M-T533II (Paper Width : 79.5mm) ANK FontA : 48 / ANK Font B : 64 M-T542II, M-T543II (Paper Width : 82.5mm) ANK FontA : 53 / ANK Font B : 71			
Character Size	FontA : 1.25 (W) × 3.0 (H) mm / FontB : 0.88 (W) × 2.13 (H) mm			
Character Set	95 Alphanumeric, 65 International, 128 × 43 Graphics			
Data Buffer	4 KB			
Barcode Type	UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), ITF, CODE39, CODABAR, CODE93, CODE128, GS1-128, GS1-DataBar Two-dimensional code : PDF417, QR Code, MaxiCode, Composite Symbology			
Interface	RS-232	IEEE 1284	USB 2.0	Ethernet
Operating Temperature	-20 to 60°C			
Operating Humidity	10 to 80 %			
Operating Voltage	24 VDC ± 2.4 V			
Overall Dimensions	80.0 (W) × 80.0 (D) × 22.0 (H) mm			
Mass (Approximately)	Approx. 65 g	Approx. 80 g	Approx. 60 g	Approx. 140 g

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