



2005-2006

Printing Product Guide

Mini Printer Mechanism MPM Embedded Unit EU

Epian Rama (Lat. Control of the Cont

The history for Epson is, in a sense, a history of standards. Epson unveiled the world's first miniprinter, for calculators, all the way back in 1968. And for more than three decades Epson has used its outstanding engineering ability and know-how to turn innovative ideas into creative, useful products. We at Epson have always believed that communicating with customer is critical. We listen to your voices, uncover your needs, and develop products and proposals designed to earn true customer satisfaction. Epson has created, and will continue to create new, industry-leading standards. Best Printing Solution for Your Needs.



Global Network

Epson Electronic Technology Development (Shenzhen)CC
Epson Precision (Hong Kong) Ltd.
Epson Precision (Hong Kong) Ltd.
Shanghai Epson Betarras Co. (Ltd.
P.T. Epson Batam
of Predision (Malaysia) Snd. Bhd.
Basia Precision (Hong Kong) Ltd.
Sourhou Epson Co. (Ltd.
Tianijir Epson Co. (Ltd.
Basia (Epson Batam
Depson Epson Industria) Pe. Ltd.
P.T. Indonesia Epson Industry
Epson Paulisa Limiteda
Epson Research and Development, Inc.
Epson Engineering (France) S. A.
Epson Research and Development, Inc.
Epson Engineering (France) S. A.
Epson Research and Development, Inc.
Epson Engineering (France) S. A.
Epson Engineering (France)

Today, Epson, the creator of the mini printer, is a truly global company with an extensive lineup of products. Our commitment to innovation and to our customers is backed up by a network of sales and service support offices around the globe. Each site stays in close contact with customers and share a variety of information and know-how. We offer you're the best printing solution by closely monitoring the latest market trends and building high-value-added products that directly address your needs.



EPSON Roots

Epson's first major product was a digital watch featuring micromechatronics and electronic technology. This was followed by a printing timer used as the official timekeeper at the 1964 Olympics. Four years later there came the EP-101, the world's first electronic calculator mini printer. This ultra-compact printer was a huge hit worldwide and heralded the start of Epson's multi-faceted business expansion, giving rise to many other products or "sons". Actually, the name EPSON is a combination of the EP from the EP-101 and SON. EPSON. A name associated with cutting-edge, high quality products around the world.

Co-Existence

e xistene

In Harmony With The Environment

In line with its commitment to maintaining harmony with nature, Epson has implemented a wide range of measures to protect the environment.

These began more than ten years ago, with the declaration that the company would stop using CFCs. Other examples include the reduction of CO₂ emissions at factories and facilities, reduction of waste materials, and recycling.

This careful attention to the environment has enabled a number of Epson factories to acquire ISO14001 certification.

Quality

Unrivalled Quality

All Epson products have one thing in common – outstanding quality.

This is the result of the careful attention we pay to customers' particular requirements. Thanks to this superior quality, Epson was the first mini printer manufacturer to acquire accreditation for ISO9001, the strictest of the ISO9000 international quality standards, covering every aspect of quality control, from quality assurance systems to services. ISO9001 compliance is just another example of the measures Epson takes to bring you total product satisfaction.

Epson Canada Ud.
Epson America Inc.
Epson Acessories, Inc.
Epson Latin America Inc.
Epson Venezuela S.A.
Epson Colombia Uda.
Epson Costa Rica S.A.
Epson Mexico, S.A. de C.V.
Epson do Brasil Industria e Comercia I
Epson Argentina S.A.
Epson Shile S.A.
Epson Argentina S.A.
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Epson Peru, S.A.

Best Printing Solution for Your Needs

Epson's extensive line of Thermal and Impact (both serial dot and shuttle dot) printers cover a wide range of user needs. Our models range from compact, low-power units on the low end to powerful, heavy-duty units on the high end. From such applications as Hand-held terminals, CAT/EFT, ATM/CD, and Kiosks etc., we fully answer your most advanced needs.









Epson Printing Technologies

Impact

The history of the impact printer began more than thirty years ago, with the EP-101. Over the decades, impact printers have steadily evolved. Never complacent as the frontrunner, Epson has continued to innovate and refine its impact printer technology. Our impact models are highly reliable, cost effective, and compact. These characteristics have helped Epson win an overwhelming and lasting share of the business printer market.

Thermal

The advanced technology, know-how, and experience Epson gained in impact printing has been transferred to a mastery of thermal printing. Like our impact printers, our thermal printers boast extremely high reliability, an Epson hallmark. Add to that the quiet operation and attractive print of the thermal printer line, and it is easy to see why these products continue to rapidly grow into new applications in a variety of fields.

Inkjet

Widely acknowledged as the ideal for printing high quality color images from a PC, inkjet technology offers customer benefits such as fast, silent, graphic-rich printout. Even more interesting is the fact that inkjet printers can use plain paper rolls, and offer the possibility of color output. Epson's expertise in inkjet technology, combined with its understanding of the demands of the customer's environment, means that it is in a unique position to meet this challenge.

You Can Get The Ideas and Power in Epson Mini Printers

Embedded Unit and Mini Printer Mechanism let you easily create new system architecture for a wide range of applications and technologies. Just look on the charts, and you can find the best one.

| | Application Examples | | | | | | | | | |
|------------------------|----------------------|-----------------------|---------|---------|-------------------|--------|-------|--------------------|--------------------|----|
| | | Hand-held terminal | CAT/EFT | ECR/POS | Ticket machine | ATM/CD | Kiosk | Lottery machine | Models | |
| [| π 3 | | | | | | | | EU-T300 Series | 10 |
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MBEDDED UNIT

Epson Embedded Units offer a whole new dimension of self-service terminal design.

They feature high printing speeds, high quality and reliability, a wide variety of module configuration selections, an original Epson Advanced Printer Drivers, and many new ideas and functions.

Epson Embedded Units are sure to provide you with a rich environment for self-service terminal design innovation in both hardware and applications.

EU-T300 Series





M/BA-T500 Series



Epson Advanced Printer Drivers

Epson advanced printer drivers make it easy. Available for Windows® 2000 / XP, and Linux®, the ever-adaptable Epson advanced printer drivers make it so easy to develop applications software, saving you time and money. And that's not all. In addition to printer drivers, the Epson Advanced Printer Drivers help keep your system running with an invaluable status monitor and maintenance counter. Allowing you to check the current status of your equipment, the status monitor is an essential tool that helps you to monitor consumables and solve errors. And for remote terminal use, Epson provides software that allows printer status monitoring from the PC side. The maintenance counter, on the other hand, informs you of operating data about parts such as the autocutter, retractor and print head. This reduces time by helping you determine when maintenance is needed - before it is needed. Epson advanced printer drivers for efficient system operation.

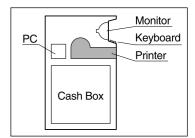
Solution proposal from Epson

ATM

- Big paper roll diameter (Max. 10 inches)
- Durable and reliable
- Flexibility in placement



Typical Terminal
Construction







M/BA-T500 Series

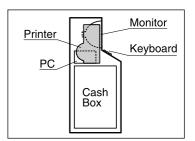
Solution proposal from Epson

CD

- Slim unit
- Durable and reliable
- Big paper roll diameter (Max. 8 inches)



Typical Terminal Construction







EU-T300 Series



EU-T400 Series

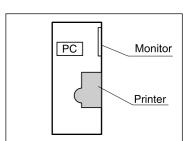


Lottery Machine

- Quick receipt issuance
- Durable and reliable
- Low sensitive paper can be used



Typical Terminal Construction







EU-T300 Series



EU-T400 Series

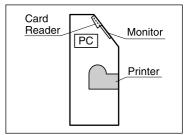


Ticket Machine

- Thick paper can be used
- Low sensitive paper can be used
- Slim unit



Typical Terminal Construction











EU-T400 Series



EU-T500 Series

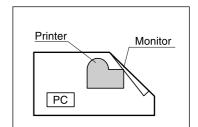


Kiosk

- PC connectivity
- Quick receipt issuance
- Compact unit



Typical Terminal Construction







EU-T300 Series



EU-T400 Series



EU-T500 Series

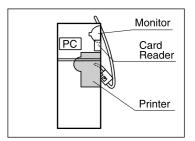


Gas Pump

- Durable and reliable
- Used in heavy circumstances (Dust, ESD or Temperature)



Typical Terminal Construction







EU-T300 Series

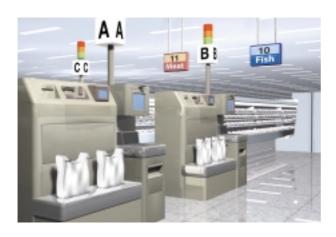


EU-T400 Series

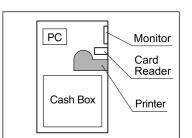


Self Checkout

- Quick receipt issuance
- Durable and reliable
- Compact unit



Typical Terminal Construction







EU-T300 Series



EU-T300 Series (EU-T312/T322/T332/T342)







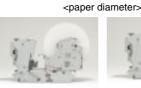
Compact and Easy Operation

Compact

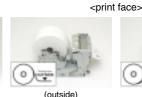
Epson uses modular components to build a Kiosk system that's perfect for your unique application. Simple components (printer module, control board module, and compact paper roll supply module) fit into various Kiosk terminals.

Selectable paper sizes

Terminal manufacturers can adjust the unit to meet their specific needs. Paper width (57.5 mm, 59.5 mm, 79.5 mm, or 82.5 mm) and paper diameter (6" or 4") can be selected as desired. And paper rolls with the print face either outside or inside can be used.









Variety of autocutter functions

A durable autocutter is standard equipment and selectable from full cut type, partial cut type (1 point left uncut), or high-speed full cut type.

Full front operation

User-friendly full front operation enables easy paper handling and maintenance because the power switch, paper feed button, and LED are all located on the front.



Worry-free paper handling

It's simple to replace the paper roll with the EU-T300 series. You can open the printer module with one hand and insert the paper roll easily and surely using the semiautomatic loading function. These functions save recovery time and increase the speed of maintenance.









Adaptable graphics printing

Text, barcodes, logos and Windows® fonts can all be printed with ease. Embellish and emphasize with underlining, enhancement, 90° rotation, black and white reversing and enlargement.

Asian language options

Chinese (simplified and traditional), Korean, and Japanese fonts are available as factory options for local markets.

| | EU-T312 | EU-T322 | EU-T332 | EU-T342 | | | |
|--------------------|--|---|--|--|--|--|--|
| Paper Dimensions | $57.5 \pm 0.5 \ \text{mm} \ \text{x}$ dia. 152.4 mm max. | 59.5 ± 0.5 mm x dia. 152.4 mm max. | 79.5 ± 0.5 mm x dia. 152.4 mm max. | 82.5 ± 0.5 mm x dia. 152.4 mm max. | | | |
| Printing Method | | Therm | nal line | | | | |
| Paper Path | | Stra | aight | | | | |
| Interface | | RS-232 / IEEE 1284 Bi- | directional parallel / USB | | | | |
| Print Speed (Max.) | | 150 mr | m / sec. | | | | |
| Paper Thickness | | 0.06 ~ 0.15 mm | | | | | |
| Power | | $24	extsf{VDC}\pm2.4	extsf{V}$ | | | | | |
| Reliability | | | | | | | |
| MCBF | | Mechanism : 3 | 7,000,000 lines | | | | |
| Printer life | M | Mechanism : 15,000,000 lines, Thermal head : 100 km (62.14 miles) | | | | | |
| Overall Dimensions | 153 (W) x 236.4 (D) x 149.8 (H) mm (6" type) | | | | | | |
| Mass | Approx. 2.5 kg (6" type) Approx. 2.6 kg (6" type) | | | | | | |
| | | | | | | | |

EU-T400 Series (EU-T412/T422/T432/T442)





Efficiency and versatility

Compact

Designed to fit into terminals of all sizes, compact dimensions and a small footprint make the EU-T400 series perfect for smaller terminals. And with the paper roll inside, the dimensions are almost the same.

High-speed and versatile printing

The EU-T400 series allows faster transactions for customers with the highest printing speed in its class. Text, barcodes, logos and Windows® fonts can all be printed with ease. Users can adjust the paper size by simply changing the printer and paper guide.

Front operation

Downtime is reduced with paper loading, maintenance and sensor adjustments carried out at the front.

Worry-free paper handling

It's simple to replace the paper roll with the EU-T400 series. A semiautomatic loading function saves recovery time and increases the speed of maintenance.









Highly durable

High durability reduces cost of ownership. The EU-T400 series allows printing of up to 300,000 receipts.

Asian language options

Chinese (simplified and traditional), Korean, and Japanese fonts are available as factory options for local markets.

| 0. 200710110 | | | | | | | |
|---------------------------|---|---|---|-----------------------------------|--|--|--|
| | EU-T412 | EU-T422 | EU-T432 | EU-T442 | | | |
| Paper Dimensions | 57.5 ± 0.5 mm x dia.203mm max | $59.5 \pm 0.5 \text{mm x dia.} 203 \text{mm max}$ | $79.5 \pm 0.5 \text{mm x dia.} 203 \text{mm max}$ | 82.5 ± 0.5 mm x dia.203mm max | | | |
| Printing Method | | Therm | nal line | | | | |
| Paper Path | | Stra | aight | | | | |
| Interface | | RS-232 / IEEE 1284 Bi- | directional parallel / USB | | | | |
| Print Speed | | 150 mr | m / sec. | | | | |
| Paper Thickness | 0.06~0.15 mm | | | | | | |
| Power | | 24 VDC ± 2.4 V | | | | | |
| Reliability | | | | | | | |
| MCBF | | Mechanism : 3 | 7,000,000 lines | | | | |
| Receipt printing | 300,000 times | | | | | | |
| Printer life | Mechanism: 15,000,000 lines, Thermal head: 100 km (62.14 miles) | | | | | | |
| Overall Dimensions | 194.7 (W) x 170.6 (D) x 350 (H) mm (8" type) | | | | | | |
| Mass | | Approx. 3.9 | kg (8" type) | | | | |

^{*}Please contact your Epson representative for unit configuration.



High Reliability and Security

High reliability – MCBF: 37 million lines

Epson's superb reliability provides long-term maintenance-free operation with an MCBF of 37 million lines.

Automatic retracting function

The optional Cut Sheet Retracting Module can prevent loss of personal data and enables safer coupon and receipt issuing.

High speed printing

The EU-T500 series achieves very fast throughput. The highest printing speed is an incredible 150mm/sec., even with graphics.

Large-diameter roll paper available - up to 254 mm (10")

TCO can use 254 mm (10") diameter roll paper, which reduces the frequency of paper replacement.

Worry-free paper handling

Semi-automatic paper loading enables easy and fast replacement of paper rolls. Also, the printer module and cut sheet retracting function have opening mechanisms for easy maintenance.









Flexible module configuration

For the best self-terminal design, this offers the choice of the paper roll supply modules and the cut sheet retracting function to meet customer needs and environmental requirements.

Asian language options

Chinese (simplified and traditional), Korean, and Japanese fonts are available as factory options for local markets.

| or Lourion to | | | | | | | |
|--------------------|--|-----------------------------------|--|--|--|--|--|
| | EU-T532 | EU-T542 | | | | | |
| Paper Dimensions | 79.5 ± 0.5 mm x dia.254 mm max. | 82.5 ± 0.5 mm x dia.254 mm max. | | | | | |
| Printing Method | Therm | nal line | | | | | |
| Paper Path | Stra | aight | | | | | |
| Interface | RS-232 / IEEE 1284 | Bi-directional parallel | | | | | |
| Print Speed | 150 mr | 150 mm / sec. | | | | | |
| Paper Thickness | 0.06~0.15 mm | | | | | | |
| Power | 24 VDC | 24 VDC ± 2.4 V | | | | | |
| Reliability | | | | | | | |
| MCBF | Mechanism : 3 | 37,000,000 lines | | | | | |
| Receipt printing | 600,00 | 00 times | | | | | |
| Printer life | Mechanism: 15 x 10 ⁸ lines / Thermal head: 100 km (62.14 miles) | | | | | | |
| Overall Dimensions | 176 (W) x 520.7 (D) x 231.4 (H) mm (Full modular type) | | | | | | |
| Mass | Approx. 5.5 kg (F | Full modular type) | | | | | |

^{*}Please contact your Epson representative for unit configuration.

M/BA-T500 Series







RS-232 / IEEE1284 Type

USB Type

Standard high performance thermal printer

Super-fast printout

The blazingly fast M-T500 series prints up to 150 mm (5.9") per second. These Chinese (simplified and traditional), Korean, and Japanese fonts are available printers also deliver fast throughput even in Full-Graphic Mode (uses BA-T500). as factory options for local markets.

Flexible paper choice for various applications

These printers can easily handle thick paper and tickets. They can also handle DC 12 V operation is possible through a standard power source for PC large diameter paper rolls of up to 254 mm (10") with an additional feed assist environments by using M-T505 / BA-T505.

Three types of paper path

Curved, straight and drop-in paper paths are available.

Standard autocutter

A durable autocutter is standard equipment. Sharp and reliable, the autocutter can even be used for heavy paper. There are two models of autocutter available: a full-cut model and a partial-cut (1 point left uncut) model. A high-speed cutter is also available.

Standard interface

RS-232 serial, IEEE 1284 Bi-directional and USB interfaces are also available in separate models for direct connection to standard PCs.

PS-180 available

By attaching the optional connector cable unit DC-T500, the printer works with the PS-180 power supply unit.

Asian language options

DC12 V operation

BA-T500 / BA-T505 SPECIFICATIONS

| Supported Printe | r | M-T500 Series | | M-T505 Series | |
|-------------------|--------|---|-----------|-----------------------------------|--|
| Printing Speed | | 150 mm / sec. max. 100 mm / s | | 100 mm / sec. max. | |
| Printing Characte | er | Text (Euro Symbo | ol availa | able), Barcode, Graphics | |
| Barcode Type | | UPC-A, UPC-E, E | AN 13(| (JAN), EAN 8(JAN), ITF, | |
| | | CODE 39, CODABAR, CODE 93 and CODE 128, | | | |
| | | Two-dimentional code: PDF417 | | | |
| Interface | | RS-232 / USB / | | RS-232 / | |
| | IEE | E 1284 Bi-directional para | allel | IEEE 1284 Bi-directional parallel | |
| Operating Tempe | rature | 0 to 55 °C | | | |
| Driver | | Windows® 2000, XP, Linux® | | | |
| Operating voltage | е | $24~\text{VDC} \pm 10\%$ | | 10~16 VDC | |
| Other Function | | | | | |
| HEX dump | | User can use Hexa | decimal | I dump print for debugging | |
| Self-test | | Configuration printout and test pattern | | | |
| Download | | Flash ROM (graphics) | | | |

SPECIFICATIONS

| | M-T511A* | M-T512A* | M-T513A* | M-T521A* | M-T522A* | M-T523A* | M-T531A* | M-T532A* | M-T532HF* | M-T537A* | M-T533A* | M-T541A* | M-T542A* | M-T542HF* |
|-------------|----------|--------------------------|----------|----------|-------------|----------|----------|----------|-------------|----------|----------|----------|-------------|-----------|
| Paper Width | 57 | $7.5 \pm 0.5 \; {\rm m}$ | m | 5 | 9.5 ± 0.5 m | m | | 79 | 9.5 ± 0.5 m | m | | 82 | 2.5 ± 0.5 m | m |
| Paper path | Curve | Straight | Drop in | Curve | Straight | Drop in | Curve | Straight | Straight | Straight | Drop in | Curve | Straight | Straight |

Note: Autocutter is selectable as follows; AF: full cut type, AP: partial cut type HF: High Speed Cutter (full cut only) See the specifications on page 23 for details.

OPTIONS

Connector Cable Unit DC-T500

The DC-T500 enables the printer to use power supply unit PS-180. By attaching the connector cable unit DC-T500, you can use the Epson standard power supply unit PS-180. This means that you do not have to design a new power supply unit for the EU and BA series by yourself.



Paper Near End Sensor Unit

Paper Near End Sensor Available Paper near-end sensor unit connects to the

EU-T500 series and EU-T400 series and BA-T500.

Low Paper Supply Detection Function

This highly efficient microswitch informs you when the paper roll is about to run out.



Mini Printer Mechanism [Impact & Thermal]

Epson confidently offers the most appropriate printer mechanisms for customers' products; they are made through over 30 years experiences with customers in the world. Printing technologies are also well-prepared as the lineup which can be match customers demands.

Calculator



- Compact size
- High speed printing

ECR/POS



- Compact size
- High speed printing
- Ease of use

CAT/EFT



- Compact size
- Light weight
- Low power consumption

Taxi meters



- Compact size
- Durable and reliable
- Used in heavy circumstances

Measuring Instruments



- Durable and reliable
- Used in heavy circumstances

Panel printers

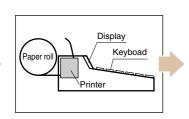


- Compact size
- Durable and reliable
- Used in heavy circumstances



Solution proposal from Epson



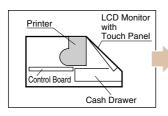






*For detail, please contact your Epson representative

Typical Terminal **Construction**











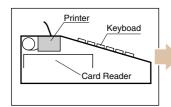
M-T53II

M-T207A

M-U110II

M-190G

Terminal Construction



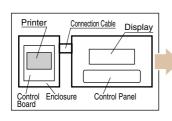


M-T123





Typical Terminal Construction

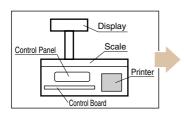








Typical Terminal Construction



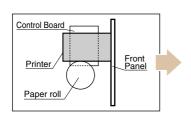


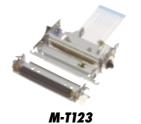


M-T102

M-190G

Typical Terminal Construction







M-190G

Thermal Printers

Thermal printers feature quiet operation and high throughput. Excellent for high-resolution graphics, our thermal printers render beautifully crisp, clear logo marks and barcodes. The simplicity of the paper path mechanism makes paper refills and maintenance easy. Epson offers a wide variety of thermal printers. You're sure to find one for your application needs.

1-STATION PRINTER

M-T200 Series



Best fit for ECR

Well fitted for ECR application

Through over 30 years experiences in ECR application of mini-printers, M-T203 and T207A are designed to fit ECR usage. Print speed of 100 mm/sec. (M-T207A) is high enough for receipt issuance. Durability of metal frame have ECR's quite reliable.

Drop in, but ease of design

M-T203 and T207A have drop-in paper set mechanism with hinge. Users do not have to be worry about designing drop-in paper set by themselves, you can have best matching in design of paper loading mechanism totally.

Ultra thin autocutter (M-T207A only)

Epson's new autocutter is extremely thin, only 6~mm. It keeps mechanism height as without. Durability of the autocutter is 0.6~million cuts.

| | M-T203 | M-T207A | | | |
|--------------------|--------------------------------------|-------------------------------------|--|--|--|
| Paper Width | 57.5 ± | 0.5 mm | | | |
| Resolution | 8 dots / mm | | | | |
| Printing Speed | 80 mm / sec. max. (at 24 V) | 100 mm / sec. max. (at 24 V) | | | |
| Voltage | 24 VDC ± 2.4 V | | | | |
| Reliability (MCBF) | 15,000,000 lines | | | | |
| Overall Dimensions | 76.9 (W) x 174.5 (D) x 164.8 (H) mm | 84.3 (W) x 196.3 (D) x 113.8 (H) mm | | | |
| Mass | Approx. 350 g (Take-up Paper Holder) | Approx. 410 g (Paper Holder) | | | |

Thermal Line M-T51 II M-T53 II / T123 LA-T51

M-T51II

M-T53II / T123



Compact Thermal Printer

Easy-to-read printing

Compared to other thermal printers using the same font, text printed with the M-T51II / T53II is larger - and receipts easier for customers to read.





print sample Other Therm

Effective use of existing resources

With the installation position the same as Epson's best selling printer mechanism, the M-190 series*, there's little need for extensive changes to the terminal casing design.

*Mounting Attachment (factory option) is needed

Sharing of some fonts with the M-190 series is possible (ask your local Epson sales company for details).

Improved lineup

Users have the benefit of a wide range of paper paths, all designed with usability in mind. The drop in mechanism is more convenient than ever before.

SPECIFICATIONS (with LSI)

| | LA-T51 |
|----------------|--|
| Power | 5 V \pm 0.25 V (VD), 5 V \sim 7.5 V (VP) |
| Character | Font A: 12 x24, Font B: 9 x17 |
| Printing | 95 Alphanumeric, 37 International, 128 x 3 Graphic |
| Dimensions | QFP 100 pin |
| Interface | Parallel Centronics, Serial RS-232C |
| Support Models | M-T51II / T53II |
| | |

| SPECIFICATIONS | | | | | | |
|--------------------|------------------------------------|-------------------|-----------------|--|--|--|
| | M-T51Ⅱ | M-T53Ⅱ | M-T123 | | | |
| Paper Width | 57.5 ± 0.5 mm | | | | | |
| Resolution | 6 dots | / mm | 8 dots / mm | | | |
| Printing Speed | 52 mm / sec. max. | 50 mm / sec. max. | | | | |
| | (at 7.5 V) | (at 7 | .5 V) | | | |
| Voltage | | 5.0 to 8.0 VDC | | | | |
| Reliability (MCBF) | 15,000,000 lines | | | | | |
| Overall Dimensions | 69.15 (W) x 51.2 (D) x 17.3 (H) mm | 82.4 (W) x 50.2 | (D) x 14 (H) mm | | | |
| Mass | Approx. 70 a | Annro | x 65 a | | | |

Thermal Printers

1-STATION PRINTER

M/BA-T100 Series

Control LSI for M-T100 Series **LA-T101**



Compact 5 V Thermal Line Printer

Choice of paper path

Both curved and straight paper paths are available, enabling the printer to be laid out in either configuration.

High reliability in a small package

Withstands heavy usage due to its sturdy steel frame. The exceptionally quiet thermal head quickly produces quality text.

Mount-compatible with M-190

Mount-compatible (fixing points), with optional attachment.

5 V autocutter available

Available with a 5 V autocutter option (M-T102A / T103A).

Controls the entire M-T100 series.

The BA-T100C controls the M-T102, T102A, T103 or T103A without changing hardware. Two types of driving voltage (6 V or 12VDC) are available to match market requirements.

Printer driver-ready

The printer driver of the BA-T100C enables users to print barcodes, graphics and text quite easily from the Windows® OS.

Multi-language type ready

In addition to the to Alphanumeric standard character set, Japanese (including Kanji), Simplified Chinese and Traditional Chinese are available as factory options.

DC12 V operation

DC 12 V operation is possible through a standard power source for PC environments by using BA-T100C.

2-STATION PRINTER

Thermal Line M-T245



Standard thermal printer for receipts

High print quality and high speed

This printer incorporates a high-density line thermal head (8 dots/mm) that ensures high quality printing. It prints faster than dot-matrix printers and makes less operating noise.

Easy paper removal and print head cleaning

The M-T245's print head-lifting mechanism makes both removal of jammed paper and cleaning easy.

Extensive selection of options

Select from an extensive number of options, including an autocutter, to customize the printer for your needs.

See the specifications on page 24 for details.

mpact Printers

High speed, simultaneous printing of multiple copies, low running costs, easy maintenance: these are just some of the features of impact printers. Impact printers are especially suited to check endorsement and validation applications. With an extensive impact printer product line, Epson can offer you the best model for your application.

1-STATION PRINTER

Shuttle Impact Dot

M-150/190 Series 190G Series LA-190G





LA-190G

| Model | Options |
|---------------|---------------------|
| M-150 | - |
| M-190 Series | Manual feed knob |
| M-190G Series | Manual feed knob |

SPECIFICATIONS

| | LA-190G | | | | |
|----------------|---|--|--|--|--|
| Power | 2.7 to 5.8 V (Topr = -15 to 85°C) | | | | |
| Character | 5 x 7 font (alphanumerics, extended graphics, international characters) | | | | |
| Package | LQFP 64 pin | | | | |
| Interface | Serial, Parallel | | | | |
| Support Models | M-150II, M-190 / 191 / 192 / 195, M-190G / 192G | | | | |

See the specifications on page 25 for details.

| M-150 | M-150 Ⅱ | | |
|---------------|---------|--------|-------|
| M-190 Series | M-190 | M-191 | M-192 |
| M-190G Series | M-190G | M-192G | |

M-150II: Smallest shuttle dot printer in the world

Ultra-compact, yet highly reliable

The M-150II of impact dot matrix printers is the world's most compact. They weigh approx. 60 g yet offer extremely high performance.

Perfect for compact devices

Because they are so compact and require so little power, the M-150II is ideal for numerous printing applications, from handy terminals to laptop computers and compact measuring instruments.

Battery operation

This battery-operated printer runs on extremely low power.

M-190: Best-selling shuttle dot printers

Faster, stronger

The M-190 series offers even better performance than the M-150 series. A dramatic improvement in printing speed brings new advances to applications such as CAT/EFT and measuring instruments.

High reliability

These printers also offer outstanding reliability for peace of mind.

Compact, lightweight

The series provides high performance in an ultra-compact, lightweight body and support for a wide variety of applications.

M-190G: upgrade from the M-190 series

Clear and speedy printouts

The M-190G series has a higher printing speed than the earlier M-190 series. This impact dot-matrix printer delivers crisp printouts.

Improved handling of poor-quality paper

Handles poor-quality paper well.

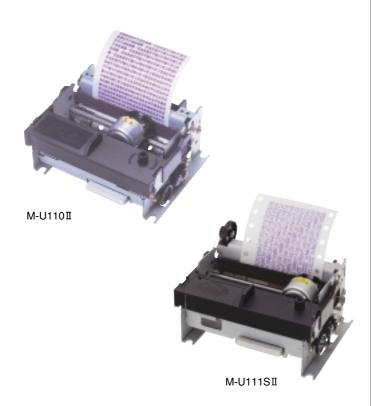
Capable of accepting ERC-40 long-life ribbon

M-195

The M-190G Series accepts the new ERC-40 long-life ribbon, which is capable of printing two million characters.

Impact Printers

Serial Impact Dot M-U110 Series





High-performance printer for ECR and CAT applications

Fast printing

Bi-directional and logic-seeking control are capable of delivering high-speed output of 5.6 lines per second (lps) for 30 columns (58mm) or 4.4 lps for 42 columns (76mm).

Reliability

Boasts superb reliability: MCBF: 9 million lines.

Installed Black Mark detector

The M-U110II has Black Mark detector as standard with variable resistance to perform best Black Mark detection.

Variation of-paper stock

The M-U110 series supports various type of paper stock.
M-U110II can handle two paper widths: 58 mm and 76mm.
M-U112 is for 58 mm width paper only but has a smaller footprint. M-U111SII is for the very popular sprocket type paper.

Multiple Copy Capability

The M-U110II has the capability to provide one original with one precise copies.

| OI LOII IOATIONO | | | | |
|--------------------|---|------------------------------|---|------------------------------|
| | M-U110∏ | M-U112 | M-U110A | M-U111SⅡ |
| Paper Type | Friction | | | Sprocket |
| Paper Width | 76.2 \pm 0.7 mm / 57.5 \pm 0.5 mm | 57.5 ± 0.5 mm | 76.2 ± 0.7 mm / 57.5 ± 0.5 mm | $76.2 \pm 0.7 \text{ mm}$ |
| Column Capacity | 42 columns (76 mm) / 30 columns (58 mm) | 30 columns | 42 columns (76 mm) / 30 columns (58 mm) | 36 columns (76 mm) |
| Font | 7 x 9 | | | |
| Printing Speed | 4.4 lines / sec. (76 mm) / 5.6 lines / sec. (58 mm) | 4.2 lines / sec. | 3.3 lines / sec. (76 mm) / 4.2 lines / sec. (58 mm) | 5 lines / sec. (76 mm) |
| Voltage | | 24 ± 2 | .4 VDC | |
| MCBF | 9,000,000 lines | 5,000,0 | 5,000,000 lines | |
| Overall Dimensions | 127 (W) x 96 (D) x 53 (H) mm | 108 (W) x 96 (D) x 53 (H) mm | 128.6 (W) x 98.8 (D) x 77.3 (H) mm | 127 (W) x 96 (D) x 61 (H) mm |
| | | | 127.6 (W) x 98.8 (D) x 77.3 (H) mm | |
| Mass | Approx. 470 g | Approx. 400 g | Approx. 700 g | Approx. 490 g |

2-STATION PRINTER

Serial Impact Dot M-780



| Options | |
|--|--|
| Validation sensor Near-end sensor Autocutter | |

Fastest two-station printer

The fastest printing in the two-station printer class

The highly reliable M-780 is the fastest printer in the two-station printer class.

Saves end-user's running cost

Helps save end-user running costs by using inexpensive 38-mm roll paper.

Convenient design

Designed with a paper-holding mechanism that prevents paper jams.

SPECIFICATIONS

| OI LOII IOATIONO | | | |
|--------------------|--|--|--|
| Paper Width | Roll paper: 37.5 ± 0.5 mm | | |
| | Validation: 134 mm or more (W) x 70 mm or more (H) | | |
| Column Capacity | 18 columns x 2, Validation: 42 columns | | |
| Printing Speed | 3.3 lines / sec. (at 24 VDC) | | |
| Voltage | 24 VDC $\pm \frac{5\%}{10\%}$ | | |
| MCBF | 3,000,000 lines | | |
| Overall Dimensions | 135 (W) x 227.7 (D) x 150.5 (H) mm | | |
| Mass | Approx. 1.0 kg | | |

2-STATION PRINTER

Serial Impact Dot M-U420 Series



| Options |
|--|
| Validation sensor Near-end sensor (R / J) Autocutter Taiwan Mark Sensor (M-U420B) |

(R / J): Receipt / Journal

Industry-wide Standard For ECR/POS Applications

Easy operating design

The clamshell design makes it easier for the operator to insert paper and remove jammed paper.

Excellent cost-performance ratio

The M-U420 provides the highest cost-performance ratio to customers.

Taiwan "Mark Sensor" available with the M-U420B

Users can set up the ECR/POS to fit special requirements for the Taiwanese market.

| Paper Width | Roll paper: $44.5 \pm 0.5 \text{ mm}$ | | | |
|--------------------|---|--|--|--|
| | Validation: 135 to 210 (W) x 70 (H) mm minimum | | | |
| Column Capacity | Receipt : 24 columns Journal : 24 columns Validation : 55 columns | | | |
| Printing Speed | 3 lines / sec. (at 24 VDC) | | | |
| Voltage | 24 VDC ^{+5%} _{-10%} | | | |
| MCBF | 4,000,000 lines | | | |
| Overall Dimensions | 150.7 (W) x 251.5 (D) x 103.5 (H) mm | | | |
| Mass | Approx 10kg | | | |

Impact Printers

Shuttle Impact Dot M-290



World's smallest slip printer

Easy terminal design

The M-290 is smaller and thinner than any other slip printer in the world. For terminal designers, this means greater ease and freedom of design and superior product innovation.

Beautiful print quality

The high-quality print is extremely clear and legible every time. And in the full graphic mode, up to 42 separate columns can be formatted.

No limit to slip design

The slip can be designed in limitless ways thanks to the use of a stepping motor and numerous advanced features such as forward and reverse paper feed, 25-line fast feed and single-dot feed. Create precisely the slip design that best suits your product.

SPECIFICATIONS

| Paper Width | 80 (W) x 80 (L) mm minimum to 182 (W) x 257 (L) mm maximum | | |
|--------------------|--|--|--|
| Column Capacity | 42 columns | | |
| Printing Speed | 2.3 lines / sec.(at 26.4 VDC) | | |
| Voltage | 24 VDC ± 10% | | |
| MCBF | 1,500,000 lines | | |
| Overall Dimensions | 138.0 (W) x 70.5 (D) x 59.5 (H) mm | | |
| Mass | Approx. 550 g | | |

Options Mechanical form stopper, TOF sensor BOF sensor, Document table, PC board insulation cover

AUTOCUTTER

AU-100 Series

The AU-100 series detects the position of the cutter blade by means of a mechanical contact and controls the rotating direction of the motor. This allows the AU-100/AU-110 to achieve both partial and full cutting of paper.



| AU-100 | AU-110 | |
|---|--|--|
| Normal Paper, Recommended Thermal Paper | | |
| 37.5 to 89.5 mm | | |
| Normal Paper: 0.06 to 0.085 mm, Thermal Paper: 0.065 mm | | |
| 300,000 cuts (incl. full & partial) | | |
| 12 VDC ± 10 % | 24 VDC ± 10 % | |
| Approx. 3 A | Approx. 2 A | |
| Approx. 800 mA | Approx. 500 mA | |
| 0 to 50°C | | |
| 103.0 (W) x 71.5 (D) x 21.5 (H) mm | | |
| Approx. 400 g | | |
| | Normal Paper, Recomi 37.5 to 8 Normal Paper: 0.06 to 0.085 n 300,000 cuts (in 12 VDC ± 10 % Approx. 3 A Approx. 800 mA 0 to 1 | |

| | | Embedded Unit | | |
|-----------------------|---|--|---|--|
| Item Model | EU-T300 | EU-T400 | EU-T532 / T542 | |
| Printing Method | Thermal line | | | |
| Paper Path | | Straight | | |
| Print Font | | | | |
| Font | | Font A: 12 x 24 / Font B: 9 x 17 / Kanji: 24 x 24 | | |
| Column capacity | Font A: 48 columns | / Font B: 64 columns / kanji 24 columns (When pap | er width is 79.5 mm) | |
| Character size | 1.25 (W | /) x 3.0 (H) mm (Font A) / 0.88 (W) x 2.13 (H) mm (| Font B) | |
| Character set | 9 | 95 Alphanumeric, 37 International, 128 x 11 Graphic | | |
| Interface | RS-232 / IEEE 1284 Bi- | directional parallel / USB | RS-232 / IEEE 1284 Bi-directional parallel | |
| Data buffer | | 4KB | | |
| Print Speed (Max.) | | 150 mm / sec. | | |
| Paper Dimensions | 57.5 / 59.5 / 79.5 / 82.5 ± 0.5 mm x dia. 152.4 mm max. | 57.5 / 59.5 / 79.5 / 82.5 ± 0.5 mm x dia. 203 mm max. | $79.5/82.5\pm0.5$ mm x dia. 254 mm max. | |
| Paper Thickness | 0.06~0.15 mm | | | |
| Power | | 24 VDC ± 2.4 V | | |
| Power consumption | | Approx. 2.1 A (print duty 25%) | | |
| Operating Temperature | 0 to 55°C | 0 to | 50°C | |
| Reliability | | | | |
| MCBF | | Mechanism : 37,000,000 lines | | |
| Receipt printing | | 300,000 times | 600,000 times | |
| Printer life | Mechanis | m: 15,000,000 lines, Thermal head: 100 km (62 | .14 miles) | |
| Overall Dimensions | 153 (W) x 236.4 (D) x 149.8 (H) mm | 194.7 (W) x 170.6 (D) x 350 (H) mm | 176 (W) x 520.7 (D) x 231.4 (H) mm | |
| | (6" type) | (8" type) | (Paper Roll Equipped Model) | |
| Mass | Approx. 2.5 / 2.6 kg (6" type) | Approx. 3.9 kg (8" type) | Approx. 5.5 kg (Full modular type) | |
| Power Supply (option) | | PS-180 | | |
| Factory Options | Loop Guide (for 600 mm Receipt issuance), Paper Supply Spacer, Multilingual Font Set, Paper Near-end Sensor | | Cut Sheet retracting function Multilingual Font Set DC-T500 | |

^{*}Please contact your Epson representative for unit configuration.

| | | | Embedded Unit | | |
|-----------------------|---|-------------------------------------|-------------------------------------|--|-------------------------------------|
| Item Model | M/BA-T500 Series | | | | |
| | M-T510 Series | M-T520 Series | M-T530 Series | M-T540 Series | M-T537A |
| Printing Method | | | Thermal line | | |
| Paper Path | | Curve or Straight or Drop in | | Curve or Straight | Straight |
| Print Font | | | | | |
| Font | | Font A: | 12 x 24 / Font B : 9 x 17 / Kanj | i : 24 x 24 | |
| Column capacity | Font A: 36 columns | Font A: 37 columns | Font A: 48 columns | Font A: 53 columns | Font A: 48 columns |
| Character size | | 1.25 (W) x 3.0 (H |) mm (Font A) / 0.88 (W) x 2.1 | 3 (H) mm (Font B) | |
| Character set | | 95 Alphan | umeric, 37 International, 128 x | 11 Graphic | |
| Interface | RS-232 / IEEE 1284 Bi-directional parallel, USB | | | ← (without USB) | |
| Data buffer | 4KB | | | | |
| Print Speed (Max.) | 150 mm / sec. | | | 100 mm / sec. | |
| Paper Dimensions | 57.5 ± 0.5 mm x dia. 254 mm max. | 59.5 ± 0.5 mm x dia. 254 mm max. | 79.5 ± 0.5 mm x dia. 254 mm max. | $82.5 \pm 0.5 \text{ mm x}$ dia. 254 mm max. | 79.5 ± 0.5 mm x dia. 254 mm max. |
| Paper Thickness | | 0 | .06~0.15 mm (~ 0.18 mm for H | F) | |
| Power | | 24 VDC | £ 2.4 V | | 10 ~ 16 VDC |
| Power consumption | Approx. 1.25 A | (print duty 25%) | Approx. 1.75 A | (print duty 25%) | Approx. 1.5 A (print duty 25%) |
| Operating Temperature | | -15 | to 70°C (without BA-T500 Ser | ies) | |
| Reliability | | | | | |
| MCBF | | | 37,000,000 lines | | |
| Receipt printing | | | _ | | |
| Printer life | | Mechanism : 15,00 | 0,000 lines, Thermal head : 1 | 00 km (62.14 miles) | |
| Overall Dimensions | 102.9 (W) x 91.9 (D) x 57.5 (H) mm 126.9 (W) x 91.9 (D) x 57.5 (H) mm | | | mm | |
| Mass | Approx. 460 g Approx. 550 g | | | | |
| Power Supply (option) | PS-180 - | | | - | |
| Factory Options | Mark sensor, Autocutter Type | | | | |

| | 1 Station Printer | | | | |
|----------------------------|---|--------------------------------------|----------------------------------|------------------------------------|--|
| Item Model | M-T203 | M-T207A | M-T102 | M-T51∐ | |
| Printing Method | Thermal line | Thermal line | Thermal line | Thermal line | |
| Number of total dots | 432 dots / line | 432 dots / line | 384 dots / line | 288 dots / line | |
| Resolution | 8 dots / mm | 8 dots / mm | 8 dots / mm | 6 dots / mm | |
| Printing width | 54 mm | 54 mm | 48 mm | 48 mm | |
| Printing Speed | 80 mm / sec. max. (at 24 V) | 100 mm / sec. max. (at 24 V) | 60 mm / sec. max. (at 7.0 V) | 52 mm / sec. max. (at 7.5 V) | |
| Paper feeding pitch | 0.063 mm | 0.063 mm | 0.0625 mm | 0.087 mm | |
| Paper feeding speed | 80 mm / sec. max. (at 24 V) | 100 mm / sec. max. (at 24 V) | 60 mm / sec. max. (at 7.0 V) | 52 mm / sec. max. (at 7.5 V) | |
| Sensor | | | | | |
| Paper end | Photosensor | Photosensor | Photosensor | Photosensor | |
| Printhead temperature | Thermistor | Thermistor | Thermistor | Thermistor | |
| Printhead unload | Microswitch | Microswitch | Microswitch | Microswitch | |
| Power Supply Voltage | | | | | |
| Printhead & Motors | 24 VDC ± 2.4 V | 24 VDC ± 2.4 V | 5.0 to 7.5 VDC | 5.0 to 8.0 VDC | |
| Printhead control & sensor | 5 ± 0.25 VDC | 5 ± 0.25 VDC | 5 ± 0.25 VDC | 5 ± 0.25 VDC | |
| Connector | | | | | |
| Printhead Motor | FFC | FFC / 4-pin connector (cutter motor) | Pin connector | FFC | |
| Paper Dimensions | 57.5 ± 0.5 mm (W) x dia.83 mm | 57.5 ± 0.5 mm (W) x dia.83 mm | 57.5 ± 0.5 mm (W) x dia. 127 mm | 57.5 ± 0.5 mm (W) x dia. 80 mm | |
| Paper Thickness | 60 ~ 75 μm | 60 ~ 75 μm | | | |
| Operating Temperature | 0 to 50°C | 0 to 50°C | 0 to 50°C | 0 to 50°C | |
| Reliability | 0.10.00.0 | 0.10.00.0 | 0.0000 | 0 10 00 0 | |
| Print head Life | 50 km, 50,00 | 0,000 pulses | 50 km, 100,000,000 pulses | _ | |
| MCBF | , , | 15,000,0 | 000 lines | | |
| Printer life | 6,000,000 lines | | | | |
| Overall Dimensions | 76.9 (W) x 174.5 (D) x 164.8 (H) mm 84.3 (W) x 196.3 (D) x 113.8 (H) mm | | 69.15 (W) x 51.2 (D) x 20 (H) mm | 69.15 (W) x 51.2 (D) x 17.3 (H) mm | |
| Mass | Approx. 350 g (Take-up Paper Holder) | Approx. 410 g (Paper Holder) | Approx. 85 g | Approx. 70 g | |
| Connector (A/C sensor) | - | - | - | - | |
| A/C life | - | 600,000 cuts | _ | - | |
| A/C method | - | Scissors type | - | - | |
| A/C duration | - | Approx. 400 ms | _ | - | |

| | 1 Station | n Printer | 2 Station Printer | |
|----------------------------|-----------------------------------|-----------------------------------|--|--|
| Item Model | m Model M-T53∏ M-T123 | | M-T245 | |
| Printing Method | Thermal line | Thermal line | Thermal line | |
| Number of total dots | 288 dots / line | 384 dots / line | R / J: 288 dots / line | |
| Resolution | 6 dots / mm | 8 dots / mm | 8 dots / mm | |
| Printing width | 48 mm | 48 mm | R / J : 36 mm | |
| Printing Speed | 50 mm / sec. max. (at 7.5 V) | 50 mm / sec. max. (at 7.5 V) | Approx. 50 mm / sec. | |
| Paper feeding pitch | 0.083 mm | 0.0637 mm | 0.125 mm | |
| Paper feeding speed | 50 mm / sec. max. (at 7.5 V) | 50 mm / sec. max. (at 7.5 V) | Approx. 50 mm / sec. | |
| Sensor | | | | |
| Paper end | Photosensor | Photosensor | Photosensor | |
| Printhead temperature | Thermistor | Thermistor | Thermistor | |
| Printhead unload | Microswitch | Microswitch | Micro switch | |
| Power Supply Voltage | | | | |
| Printhead & Motors | 5.0 to 8.0 VDC | 5.0 to 8.0 VDC | 24 VDC ± 7 % | |
| Printhead control & sensor | 5 ± 0.25 VDC | 5 ± 0.25 VDC | 5 ± 0.25 VDC | |
| Connector | | | | |
| Printhead | FFC | FFC | FFC connector | |
| Motor | FFC | FFC | Pin connector | |
| Paper Dimensions | 57.5 ± 0.5 mm (W) x dia.80 mm | 57.5 ± 0.5 mm (W) x dia.80 mm | 44.5 ± 0.5 mm (W) x dia. 83 mm max. | |
| Operating Temperature | 0 to 50°C | 0 to 50°C | 0 to 40°C | |
| Reliability | | | | |
| Print head Life | - | 50 km, 100,000,000 pulses | - | |
| MCBF | 15,000,000 lines | | 5,000,000 lines | |
| Printer life | 6,000,0 | 00 lines | 10,000,000 lines | |
| Overall Dimensions | 82.4 (W) x 50.2 (D) x 14 (H) mm | 82.4 (W) x 50.2 (D) x 14 (H) mm | 144 (W) x 213.1 (D) x 159.2 (H) mm (with full options) | |
| Mass | Approx. 65 g | Approx. 65 g | Approx. 920 g (without options) | |
| | | | (*) (R / J) : Receipt / Journ | |

| | 1 Station Printer | | | | |
|------------------------|---|---------------------------------------|---------------------------------|-------------------------------|-------------------------------|
| Item Model | M 450T | M-190 Series | | | |
| M-150Ⅱ | | M-190 | M-191 | M-192 | M-195 |
| Printing Method | | | Shuttle impact dot matrix | | |
| Printing Format | | | | | |
| Font | | 5 x 7 | | | |
| Column capacity | 16 columns | 24 columns | 32 columns | 40 columns | 18 columns |
| Character size | 1.8 (W) x 2.5 (H) mm | 1.7 (W) x 2.6 (H) mm | 1.3 (W) x 2.6 (H) mm | 1.1 (W) x 2.6 (H) mm | 1.7 (W) x 2.6 (H) mm |
| Line spacing | * 3.5 mm | | 3.7 mm (In case of 5 x 7 font | and 3 dots / line paper feed) | |
| Column spacing | 2.1 mm | 2.0 mm | 1.5 mm | 1.2 mm | 2.0 mm |
| Number of total dots | 96 dots / line | 144 dots / line | 192 dots / line | 240 dots / line | 108 dots / line |
| Printing Speed | 1.0 line / sec. (at 4.5 VDC) | 2.5 lines / sec. (at 4.8 VDC) | 1.9 lines / sec. (at 4.8 VDC) | 1.5 lines / sec. (at 4.8 VDC) | 2.5 lines / sec. (at 4.8 VDC) |
| Print head | | | | | |
| Voltage | 3.3 to 5.0 VDC | 3.3 to 5.2 VDC | | | |
| Peak current | Approx. 3 A / solenoid (at 4.5 VDC) | Approx. 2.5 A / solenoid (at 4.8 VDC) | | | |
| Motor | | | | | |
| Voltage | 3.8 to 5.0 VDC | 3.8 to 5.2 VDC | | | |
| Mean current | Approx. 0.17 A (at 4.5 VDC) | | Approx. 0.35 | A (at 4.8 VDC) | |
| Paper | | | Roll paper | | |
| Dimensions | 44.5 ± 0.5 mm (W) x dia. 50 mm max. | 57. | 5 ± 0.5 mm (W) x dia. 83 mm m | nax. | 44.5 ± 0.5 mm (W) |
| Total Thickness | 0.07 mm | | 0.06 to 0 | .085 mm | |
| Copy Capability | | | Original and one copy | | |
| Ribbon Cassette | ERC-05 | | ERC-0 | 09 / 22 | |
| Operating Temperature | | | 0 to 50°C | | |
| Reliability | | | | | |
| Print head Life | | | - | | |
| MCBF | 500,000 lines | 1,500,000 lines | 1,100,000 lines | 900,000 lines | 1,500,000 lines |
| Printer Life | | 2,250,000 lines | 1,650,000 lines | 1,350,000 lines | 2,250,000 lines |
| Overall Dimensions | 73.2 (W) x 42.6 (D) x 12.8 (H) mm | | 91.0 (W) x 46.9 (| D) x 15.8 (H) mm | |
| Mass (without options) | Approx. 60 g | Approx. 100 g | | | |

| | 1 Station Printer | | Slip Printer |
|------------------------|---|------------------------|--|
| Item Model | M-190G Series | | M-290 |
| | M-190G | M-192G | IVI-250 |
| Printing Method | Shuttle impac | ct dot matrix | Shuttle impact dot matrix |
| Printing Format | | | |
| Font | 5 x | 7 | 7 x 7 |
| Column capacity | 24 columns | 40 columns | 42 columns |
| Character size | 1.7 (W) x 2.6 (H) mm | 1.1 (W) x 2.6 (H) mm | 1.3 (W) x 2.9 (H) mm |
| Line spacing | 3.7 mm (In case of 5 x 7 font and 3 dots / line paper feed) | | 4.2 mm |
| Column spacing | 2.0 mm | 1.2 mm | 1.6 mm |
| Number of total dots | 144 dots / line | 240 dots / line | 210 dots / line |
| Printing Speed | 2.7 lines / sec. ± 20% | 1.8 lines / sec. ± 20% | 2.3 lines / sec. (at 26.4 VDC) |
| Print head | | | |
| Voltage | 5.0 ± 0.5 VDC | | 24 VDC ± 10% |
| Peak current | Approx. 2.5 A / solenoid (at 5 VDC) | | Approx. 1.6 A / solenoid (at 24 VDC) |
| Motor | | | |
| Voltage | 5.0 ± 0.5 VDC | | 24 VDC ± 10% |
| Mean current | Approx. 0.35 A (at 5 VDC) | | Approx. 0.15 A (at 24 VDC, P.F. motor), Approx. 0.15 A (at 24 VDC, CR motor) |
| Paper | Roll paper | | Slip paper |
| Dimensions | 57.5 ± 0.5 mm (W) x dia 83 mm max. | | 80 (W) x 80 (L) mm mini. to 182 (W) x 257 (L) mm max. |
| Total Thickness | 0.06 to 0.085 mm | | 0.09 to 0.35 mm |
| Copy Capability | Original and one copy | | Max : Original and four copies (at 25°C) |
| Ribbon Cassette | ERC-09 / ERC-22 / ERC-40 | | ERC-27 |
| Operating Temperature | -10 to 50°C (using ERC-22, ERC-40) | | 0 to 50°C |
| Reliability | | | |
| Print head Life | - | | 100,000,000 strokes / wire |
| MCBF | 1,500,000 lines | 1,000,000 lines | 1,500,000 lines |
| Printer Life | 2,250,000 lines | 1,500,000 lines | - |
| Overall Dimensions | 91.0 (W) x 46.9 (D) x 15.8 (H) mm | | 138.0 (W) x 70.5 (D) x 59.5 (H) mm |
| Mass (without options) | Approx. 100 g | | Approx. 550 g |
| 7 | | | UL478, CSA220 recognized products are available on reque |

vailable on request. (Safety Standards)

| | 1 Station Printer | | | | |
|------------------------|---|--|---|--|--|
| Item Model | | | | | |
| | M-U110 ∏ | M-U112 | M-U110A | | |
| Printing Method | | Serial impact dot matrix | | | |
| Printing Format | | | | | |
| Font | 7 x 9 | | | | |
| Column capacity | 42 columns (76 mm) / 30 columns (58 mm) | 30 columns | 42 columns (76 mm) / 30 columns (58 mm) | | |
| Character size | 1.20 (W) x 3.1 (H) mm | 1.24 (W) x 3.1 (H) mm | 1.24 (W) x 3.1 (H) mm | | |
| Line spacing | Approx. 4.2 mm | | Approx. 4.23 mm (24 step) | | |
| Column spacing | Approx. 1.5 mm | Approx. 1.6 mm | Approx. 1.6 mm | | |
| Number of total dots | 210 dots (420 positions) / line (76 mm) / 150 dots (300 positions) / line (58 mm) | 150 dots (300 positions) / line | 210 dots (420 positions) / line (76mm) / 150 dots (300positions) / line (58mm) | | |
| Printing Speed | 4.4 lines / sec. (76 mm) / 5.6 lines / sec. (58 mm) | 4.2 lines / sec. | 3.3 lines / sec. (76 mm) / 4.2 lines / sec. (58 mm) | | |
| Print head | | | | | |
| Voltage | | 24 ± 2.4 VDC | | | |
| Peak current | Approx. 11.7 A (at 24 VDC) | Approx. 8.6 A (at 24 VDC) | Approx. 8.6 A (at 24 VDC) | | |
| Motor | | | | | |
| Voltage | 24 ± 2.4 VDC | | | | |
| Mean current | 0.35A / phase (CR motor) / 0.3A / phase (P.F.motor) | | | | |
| Paper | Roll paper | Roll paper | Roll paper | | |
| Dimensions | Roll paper : 76.2 ± 0.7 mm (W) / 57.5 ± 0.5 mm (W) x dia. 83 mm max. | Roll paper : 57.5 \pm 0.5 mm (W) x dia. 83 mm max. | Roll paper : 76.2 ± 0.7 mm (W) / 57.5 ± 0.5 mm (W) dia. 83 mm max | | |
| Total Thickness | Roll paper: 0.06 to 0.14mm | Roll paper : 0.06 to 0.2mm | Roll paper : 0.06 to 0.14 mm | | |
| Copy Capability | Original and one copy | Original and two copies | Original and one copy | | |
| Ribbon Cassette | ERC-39 (P) | ERC-42 (P) | ERC-39 (P) | | |
| Operating Temperature | 0 to 50°C | | | | |
| Reliability | | | | | |
| Print head Life | | 150,000,000 characters | | | |
| MCBF | 9,000,000 lines | 5,000,000 lines | | | |
| Printer Life | 9,000,000 lines | 8,000,000 lines | | | |
| Overall Dimensions | 127.0 (W) x 96.0 (D) x 53.0 (H) mm | 108.0 (W) x 96.0 (D) x 53.0 (H) mm | 128.6 (W) x 98.8 (D) x 77.3 (H) mm (76 mm) 127.6 (W) x 98.8 (D) x 77.3 (H) mm (58 mm) | | |
| Mass (without options) | Approx. 470 g | Approx. 400 g | Approx. 700 g | | |
| Autocutter | | | | | |
| Autocutter life | - | | 1,000,000 cuts | | |
| Cutting method | - | | Scissors | | |
| Operating duration | - | | Approximately 350 ms (at 24 VDC) | | |

| | Sprocket Printer | 2 Station Printer | | |
|------------------------|--|---|---|--|
| Item Model | M-U110 Series | M 700 | M HAOO Corioo | |
| | M-U111S∏ | M-780 | M-U420 Series | |
| Printing Method | Serial impact dot matrix | Serial impact dot matrix | Serial impact dot matrix | |
| Printing Format | | | | |
| Font | 7 x 9 | 7 x 9 | 7 x 9 | |
| Column capacity | 36 columns (76 mm) | 18 columns x 2, Validation: 42 columns | Receipt : 24 columns Journal : 24 columns Validation : 55 columns | |
| Character size | 1.2 (W) x 3.1 (H) mm (76 mm) | 1.3 (W) x 3.1 (H) mm 1.32 (W) x 3.1 (H) mm | | |
| Line spacing | Approx. 4.2 mm | 4.7 mm | 4.3 mm | |
| Column spacing | Approx. 1.5 mm (76 mm) | 1.53 mm | 1.54 mm | |
| Number of total dots | 180 dots (360 positions) / line | R / J : 81 dots (162 positions) / line / Validation: 189 dots (378 positions) / line | R / J : 108 dots (216 positions) / line Validation : 247 dots (495 positions) / line | |
| Printing Speed | 5 lines / sec. (76 mm) | Approximately 3.3 lines / sec. (at 24 VDC) | Approximately 3 lines / sec. (at 24 VDC) | |
| Print head | | | | |
| Voltage | 24 ± 2.4 VDC | 24 VDC ± 5% | 24 VDC +5% | |
| Peak current | Approx. 11.7 A (at 24 VDC) | Approx. 10.8 A (at 24 VDC) | Approx. 8.6 A (at 24 VDC) | |
| Motor | | | | |
| Voltage | 24 ± 2.4 VDC | 24 VDC ± 5% | 24 VDC +5% | |
| Mean current | 0.35A / phase (CR motor) / 0.3A / phase (P.F.motor) | Approx. 0.25 A (at 24 VDC) | Approx. 0.2 A (at 24 VDC) | |
| Paper | Sprocket paper | Roll paper / Validation paper | Roll paper / Validation paper | |
| Dimensions | 76.2 ± 0.7 mm (W) x 127 to 254 mm (H) (between perforations) | Roll paper : 37.5 ± 0.5 mm (W) x dia. 83 mm max. Validation : 134 mm or more (W) x 70 mm or more (H) | Roll paper : 44.5 ± 0.5 mm (W) x dia. 83 mm max. Validation : 135 to 210 (W) x 70 (H) mm mini. | |
| Total Thickness | 0.1 to 0.2 mm | Roll paper: 0.06 to 0.09 mm, Validation: 0.07 to 0.2 mm | Roll paper : 0.06 to 0.09 mm / Validation : 0.07 to 0.14 mm | |
| Copy Capability | Original and two copies | Original and two copies (Validation) | Original and one copy (Validation) | |
| Ribbon Cassette | ERC-39 (P) | ERC-37 (P) | ERC-32 (P) | |
| Operating Temperature | 0 to 50°C | 0 to 50°C | 0 to 50°C | |
| Reliability | 0 10 30 0 | 0 10 30 0 | 0 10 50 C | |
| Print head Life | 150,000,000 characters | 100,000,000 characters | 150,000,000 characters | |
| MCBF | 8,000,000 characters | 3,000,000 characters | 4,000,000 characters | |
| Printer Life | 8,000,000 lines | 5,000,000 lines | 4,000,000 lines 8,000,000 lines | |
| Overall Dimensions | 127.0 (W) x 96.0 (D) x 61.0 (H) mm | 135 (W) x 227.7 (D) x 150.5 (H) mm | -,, | |
| | () () | . , , , , , , , | 150.7 (W) x 251.5 (D) x 103.5 (H) mm | |
| Mass (without options) | Approx. 490 g | Approx. 1.0 kg (1.1 kg with autocutter) | Approx. 1.0 kg (1.1 kg with autocutter) | |



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