



2006-2007 System Product Guide

POS Terminal **MR**

POS Terminal **SR**

POS Terminal **IR**

Printers **TM SERIES**

Customer Displays **DM-D SERIES**

The Best Hardware Solutions For Your Open System

Innovation For The Customer

Since its establishment, Epson has continued to strive to define new standards of performance and ease of operation. Our aim is total customer satisfaction. To achieve this, we look at the task at hand, and combine our extensive database and technical expertise with our considerable experience to deliver the optimum solution. Naturally, we also take advantage of our global network to keep abreast of the latest trends worldwide. By doing this, we are always able to provide value-added products that respond precisely to changing needs. Innovation - it's all part of Epson's customer first approach.



Co-Existence 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 Ecology Label



The Epson Ecology Label is a voluntary labeling (Type II) system applicable to all Epson products. Epson develops new products based on its own evolving set of environmental standards and discloses the products' compliance through the label. The products with this label are Epson Ecology Products. Refer to the web site (<http://www.epson.co.jp/e/>) for the standards in detail.

Epson Takes The Initiative For Your Solution.

Setting the standards by providing revolutionary products for a wide range of applications. The facts speak for themselves. In the area of hardware, Epson has continued to provide countless solutions, such as the TM-C100, the full color inkjet printer for POS applications. With regards to software, Epson took the initiative by introducing ESC/POS®, a proprietary POS printer command system including patented commands and enabling versatile POS system construction with high scalability. Compatible with all types of Epson POS printers and displays, this proprietary control system also offers the flexibility to easily make future upgrades. Its popularity is worldwide. Another world first was OLE POS (OPOS) OCX driver software for application software development support in Windows NT®, Windows®2000, Windows®XP and WEPOS environments. For software development support in Java™ environments, there's JavaPOS™. These and other innovations are why Epson is a leader in its field. It's all a matter of taking the initiative.

Satisfying Needs

Whenever there's a need, Epson is there with just the right solution. The TM Series lineup offers models to print everything from receipts, sales slips and journals to tickets, checks and invoices. And for retail and hospitality businesses, the MR / SR / IR Series features an easy-to-use touch panel.

Over 30 Years Of Satisfaction

For over a quarter of a century Epson has been the world's top manufacturer of printers. During this time, we have produced an incredible 270 million of our famous mini printers. At retail outlets, in hotels, hospitals, car rental centers, banks - wherever you look, you'll find an Epson printer contributing to improved productivity and efficiency.



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.

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POS Terminal

IR-700 Series

Customizable and Stylish POS Terminal

The All-in-one Solution

The IR-700 is the all-in-one POS terminal with compact design and improved performance that is the powerful successor to the IR-320. Continuing with the outstanding expandability and an integrated concept, the IR-700 offers even more flexibility through an increased number of peripherals and options that suit your requirements.

Stylish and Compact Design

The IR-700 boasts an attractive contemporary design that complements any store environment. Its small footprint makes the IR-700 fit snugly on your counter, freeing up valuable counter space. Cable connections are also inset behind the system and maintain a neat appearance, saving even more space. Furthermore, the IR-700 can be installed either horizontally or vertically to fit to store space. With its outstanding flexibility and compactness, the IR-700 makes your communication with the customer and your store operation much improved.



User-friendly Touch Panel

The IR-700's large display is easily readable thanks to the TFT screen, and you can choose between a 12.1" or 15.0" touch panel. Its high performance touch panel is incredibly easy to use, helping to reduce inputting errors while reducing training time and costs.



Flexible Printing & Easy Operation

You can choose either the standard thermal receipt printer or another printer to meet your needs. The thermal receipt printer offers high speed printing and convenient drop-in paper loading. If you attach the optional printer tray for TM-T90/L90, both receipt and label printing are available in one printer. There's also an optional dummy printer cover, which lets you use other Epson TM series printers.

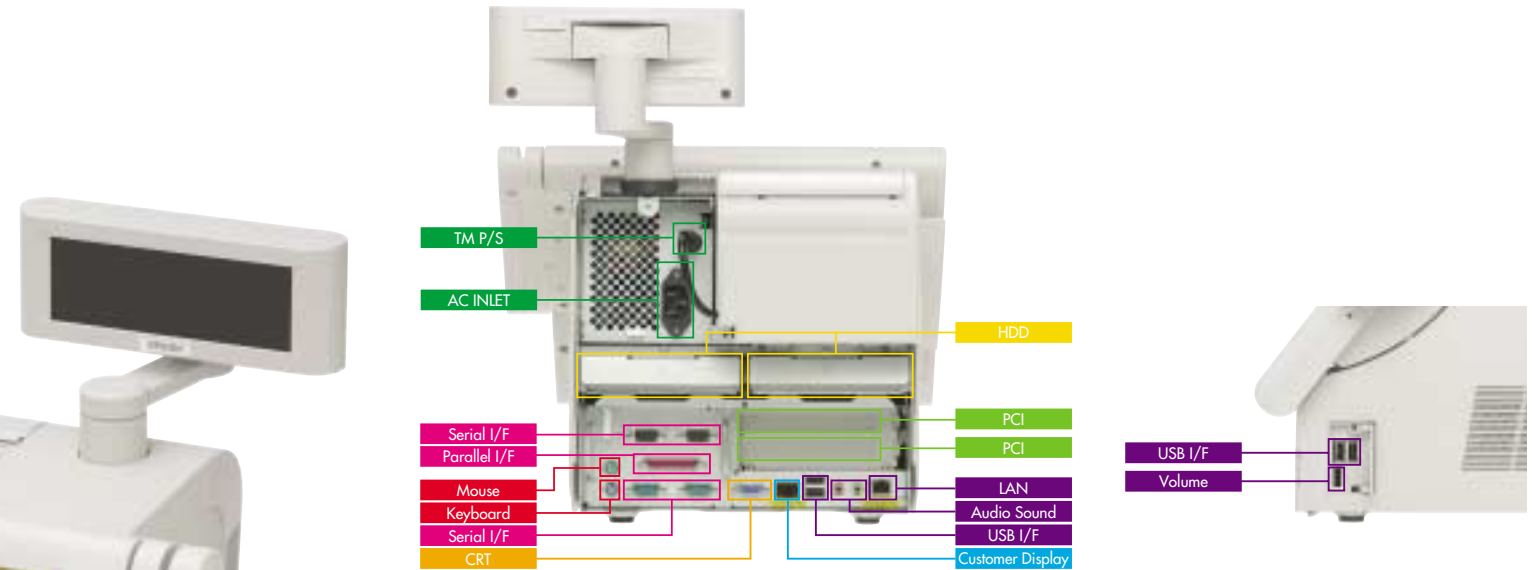


Dummy printer cover



Printer tray for TM-T90/L90

Multiple Interfaces For Exceptional Expandability



Various and Flexible Options

A wide range of options are selectable for customizing your system. These include an MSR unit, a 28-key or 60-key keyboard unit, and a selection of customer displays. These options allow you to upgrade your system easily and to customize it freely to meet your needs.



MSR Unit



28-Key Keyboard Unit with MSR Unit



60-Key Keyboard Unit



Customer Display

Easy Maintenance

It is very easy to replace or access devices such as the motherboard, HDD, LCD, and printer. So you can reduce the downtime at the store and save maintenance costs.

SPECIFICATIONS

CPU	Pentium® M 1.8 GHz / Celeron® M 1.3 GHz
Memory	184-pin DDR SDRAM DIMM slots x 2 (1 GB max.)
Storage	HDD: Can be equipped with 3.5-inch x 2, CompactFlash® card slot x 1
Slots	PCI x 2
I/O	Serial (External x 4) w/5 V & 12 V power for external by jumper switches Parallel x 1 (EPP/ECP supported) USB x 4 Ethernet x 1 (10 BASE-T / 100 BASE-TX), wake on LAN support PS/2 x 2 (for Keyboard and Mouse) CRT x 1 Customer display x 1 24 V Drawer port x 1 Sound: output to the built-in speaker, External line input / output, microphone input
Video	Built-in on chipset (capable of dual display)
Others	Power connector for built-in (TM-T88III) / external printer & powered USB board (24V) Power switch Software switch on front / accidental power off protection
BIOS	ACPI 1.0b, APM 1.2, Plug and Play, DMI
OS Supported	Windows® 2000 Professional SP4 or later, Windows® XP Professional SP2 or later
Size	Base unit 250 (W) x 340 (D) x 254 (H) mm (with rear cover)
Printer Units	Thermal Printer TM-T88III (80 mm paper roll) Printer Tray Printer tray for TM-T90 / L90 Printer Cover Dummy printer cover
LCD With Touch Panel	15.0" TFT color (1,024 x 768), Resistive touch panel (355 (W) x 280 (H) mm) 12.1" TFT color (800 x 600), Resistive touch panel (314 (W) x 254 (H) mm)
Options	Customer Display VFD (20 x 2-line display or 256 x 64 dots graphic display), w/Clamp pole, w/Extended Pole (125 mm) MSR Unit ISO 1, 2 & 3 track, Fixed to LCD or Keyboard unit POS Keyboard Unit 60-key unit, programmable, 28-key unit, programmable Others Vertical Stand, Powered USB Board
EMC Standards	VCCI class A, FCC class A, CE marking, AS / NZS CISPR22 class A
Safety Standards	UL / CSA / EN

POS Terminal

SR-610 Series

Compact POS Terminal for retail and hospitality

Quality and Performance at a Touch

The SR-610 is a compact POS terminal with a low profile and improved performance that is the powerful successor to the SR-600. Continuing with the outstanding expandability, the SR-610 offers a wide range of value-added solutions to businesses in retail and hospitality environments.

Compact and durable design

With its small footprint and low profile design, available in either Epson Dark Gray or Epson Cool White, the SR-610 complements any retail or hospitality environment. Its small footprint makes the SR-610 fit snugly on your counter, freeing up valuable counter space. Furthermore, the SR-610 is ideal for restaurants and bars thanks to the durable design that withstands accidental spills of water. With its outstanding flexibility and compactness, the SR-610 makes your communication with the customer and your store operation much improved.



Powerful

The SR-610's powerful Celeron® M processor lets you take advantage of the latest applications and functions, and it offers a smooth operation without any frustrations. To increase processing capabilities even further, you can add up to 1GB of DIMM.

User-friendly touch panel

The SR-610's large 12.1" display is easily readable thanks to the TFT screen. Its high performance touch panel is incredibly easy to use, helping to reduce inputting errors, while reducing training time and costs.



Selectable configuration

A wide range of options are selectable for customizing your system. These include an MSR unit, a customer display, a 60-key keyboard unit, and a CompactFlash® card slot. These options allow you to upgrade your system easily and to customize it freely to meet your needs.

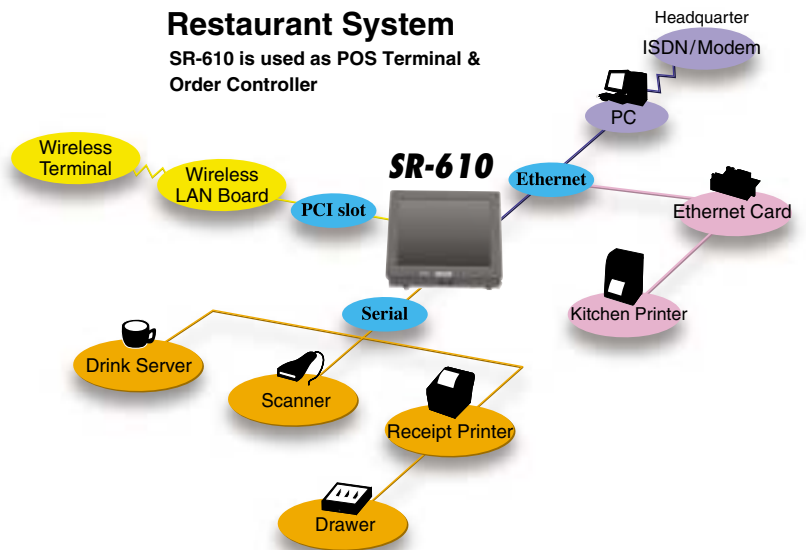


Not only functional, the sleek lines and refined good looks of the SR-610 Series are sure to enhance the appearance of any shop counter. This modernistic design will blend perfectly with the decor of even the most up-market specialty store or the highest class of hotels.



Restaurant System

SR-610 is used as POS Terminal & Order Controller



Expandability

There's a wide range of interfaces including serial, parallel, USB and Ethernet, giving you maximum flexibility in your choice of hardware, software and peripherals to expand your system as desired. All you have to do is connect your new system to your network and it's ready to go.



Easy Maintenance

We have designed the product taking into consideration ease of access to devices such as the HDD and the motherboard. In fact, you can replace the HDD easily from the front side. With this design, you can reduce downtime at the store, which saves maintenance time and cost.



SPECIFICATIONS

CPU	Celeron® M 1.3 GHz	
Memory	184-pin DDR SDRAM DIMM slots x 2 (1GB max.)	
I / O Ports	Ethernet x 1 (10 Base-T / 100 Base-TX) Serial x 3 (9-pin D-sub male), +5 V to pin 1 of COM1 or COM2 Parallel x 1 (D-sub 25-pin female) USB x 4 PS/2 K/B & Mouse ports (front x 1, bottom x 1) *1 CRT x 1 (D-sub 15-pin female) Parallel x 1 Customer display x 1 Cash drawer x 1	
Storage	1 or 2 HDD (2.5" SATA interface)	
Slot	PCI x 1	
MSR	ISO Track 1, 2, 3 (Option)	
Size	Base unit 310 (W) x 363 (D) x 277 (H)mm (at highest angle) (including rubber feet, excluding LCD clamp)	
Mass	Approx. 8.7 kg (including CPU, HDD, DIMM, TFT LCD UNIT)	
Environment	Temperature	
	Operating	5° to 35° C
	Storage	-10° to 50° C
	Humidity	Operating 30 to 80 % RH (no condensation) Storage 30 to 90 % RH (no condensation)
OS Supported	Windows® 2000 Professional, Windows® XP Professional	
LCD With Touch Panel	12.1-inch color TFT (800 x 600 dots, with resistive touch panel)	
Customer Display	2 x 20 char. Type	
Others	Front key lock	
EMC Standards	VCCI class A, FCC class A, CE marking, AS/NZS CISPR22 class A	
Safety Standards	UL / CSA / EN	

*1 One of two PS/2 ports can be used exclusively by dip switch setting.

POS Terminal

MR-800 Series

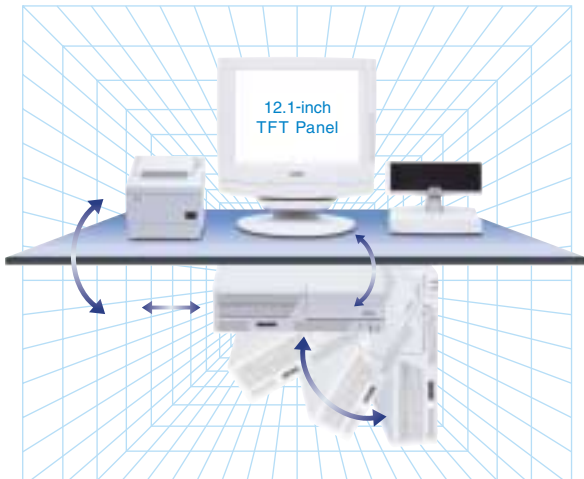
Modular-type POS Terminal

A Powerful Checkout Partner

Epson presents the MR, its powerful Modular POS system for retailers who want to stay ahead. Backed up by Epson's powerful support network, the MR is a reliable partner that provides the compactness and versatility that you need to serve your customers quickly and efficiently – and increase profits. The modular design offers a variety of layout possibilities and configurations enabling you to arrange the MR to fit precisely into your store and your system. If you want peace of mind, make Epson's MR your partner for success.

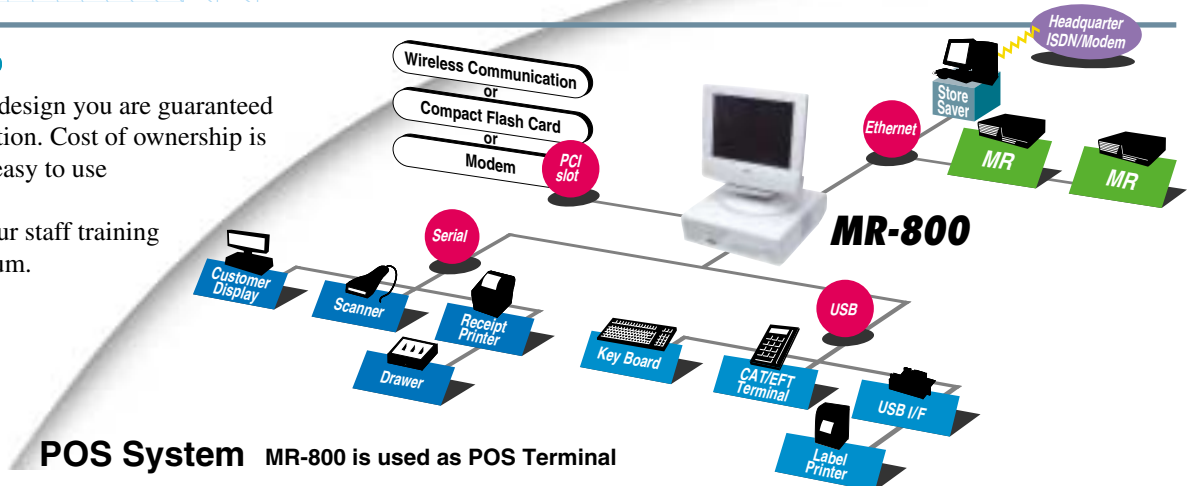
Compact and Modular Design

The MR's elegant, modular design in a small footprint, means that it can be arranged to fit neatly on to or under any counter. The main PC can be arranged vertically or horizontally, giving you more options for under the counter installation.



Low Cost of Ownership

Thanks to the MR's robust design you are guaranteed long and trouble free operation. Cost of ownership is further reduced, since it is easy to use and reduces training time. The MR helps you keep your staff training costs to an absolute minimum.





Increased Efficiency

With a powerful Celeron® CPU increasing the speed of every transaction, the MR ensures you will not keep your customers waiting. The easy-to-view 12.1" TFT monitor and optional touch panel allows transactions to be completed quickly and easily. Tailored exactly to meet your needs, this durable, worry-free POS terminal from Epson can increase the efficiency of your business, and lead to satisfied customers and higher profits.



MSR Unit



CD-ROM Drive
CD-R/RW Drive



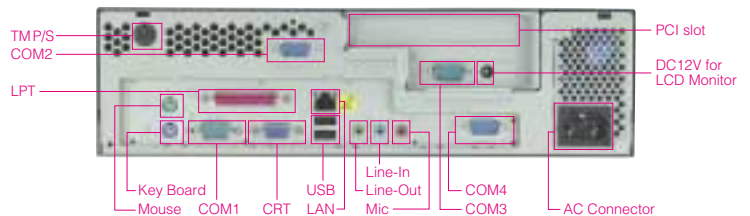
12.1-inch TFT Panel

Flexibility

The MR's compact design still delivers outstanding expandability. One parallel, four USB and four serial ports mean that it can be connected freely to as many devices as you need to run your business.

Options such as an MSR, touch panel and CD-ROM unit give you the power to configure it to your precise needs.

And by selecting a printer from Epson's acclaimed TM or DM-D series, the MR lets you create the ideal POS system for your business.



SPECIFICATIONS

1. BASE Unit PC function

CPU	Celeron® 733 MHz / 1.2 GHz
Memory	168 pin DIMM / SDRAM x 2 slots (512MB Max)
Storage	FDD (3.5" slim FDD) x 1, 1 HDD (3.5", 10GB or more)
Slots	PCI x 1
I/O Ports	Ethernet x 1, 10 Base-T / 100 BaseTX (RJ-45 with access LED) Serial x 4 (D-sub 9-pin male), *COM3 / COM4 can output +5V or +12V by jumper setting Parallel x 1 (D-sub 25-pin female) USB port x 4 (2 x Rear, 2 x Front), Support Legacy USB Keyboard / Mouse K/B & Mouse port x 1 PS / 2-type (6-pin mini-DIN) LCD Monitor x 1 (D-sub 15-pin female) Audio (AC97 2.1 Audio Codec, MIC Jack, Line-In Jack, Line-Out Jack) DC Output for DM-M820 (LCD Monitor), DC Output for TM printers.
Video	Integrated 2D / 3D Graphic Accelerators controller
Speaker	Built-in monaural speaker (without volume). *Not support Audio output
OS Supported	MS-DOS® 6.2, Windows® 98, Windows® 2000, Windows® XP, Windows NT®
BIOS	ACPI 2.0b, APM 1.2, PnP 1.0a, SMBIOS 2.0
Option Unit	Optional drive
	CD-ROM drive, CD-R / RW drive
Size	315 (W) x 365 (D) (280 without rear cover) x 88 (H) mm
EMC Standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 (CISPR22) class A
Safety Standards	UL / CSA / EN

2. Monitor

LCD	Size, Type	12.1" TFT 800 x 600 dots
	Color	262144 colors
	Brightness	350 cd / m ² (w/TP:275 cd / m ²) *High Brightness model
	Lamp Life	50,000 hrs min. *High Brightness model
Connections	Video Input	Analog RGB
Power		DC 12V (From BASE Unit)
Dimension		320(W) x 340(H) x 200(D) mm
Option	MSR unit	ISO 7811, track 1, 2, 3
	Touch panel	Resistive film (Finger print resistance type) *High Brightness model

TM Series

Fast Solution For Multiple Printing Needs

- Inkjet printers
- Hybrid printers
- Thermal line printers
- Impact dot matrix printers
- Slip printers

Variety

Technology Lineup

Impact, thermal, hybrid and inkjet printers for a wide range of applications.

Station Lineup

A huge range of models including 1 station, 1.5 station, 2.5 station, Slip, and Label printers.

Two Case Colors

Epson dark gray available for hospitality businesses and stores aiming for interior color coordination.



Asian Multi-Language Capability

Extension memory enables use of multiple languages including Chinese and Thai.

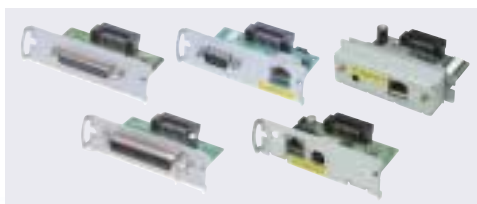


	Automatic Status Back Function
	Easy Paper Roll Setting
	Auto Feed Paper Loading
	Autocutter
	Two-color Printing
	Full-color Printing
	Pigment Ink
	MICR
	Maintenance Memory
	Display Port
	Multi Language
	Dark Gray

Expandability

Universal Interface

Wide range of interfaces to meet customers' current needs while enabling future upgrades.



Multiple interfaces

DM-D Connection

Interface on the printer side provided for connection of a DM-D customer display without taking up valuable counter space. Also leaves other interfaces free for additional applications.



Easy combination with a customer display

IR Connection

You can easily combine a TM Series printer with an IR Series model for future system upgrades.

Variety
Security
Advanced Tech
Expandable

Ready To Meet All Your Needs

When Epson designs a printer, it takes everything into consideration, not just whether you want receipt, journal, ticket or other output. This means there's an Epson printer ready to deliver all the functions and features you need while meeting your connection and security requirements. Take a look at what Epson has to offer.

Security

Maintenance Memory

Number of lines printed and number of cutter operations performed are stored in memory to help decide when maintenance is required.



Cable Management

Eliminates untidy cables while assuring firm connection.



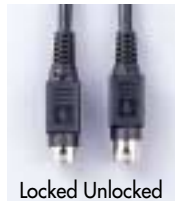
Switch Cover

Prevents accidental switch operation.



Security Plug

Prevents accidental unplugging. (PS-180)



Advanced Technology

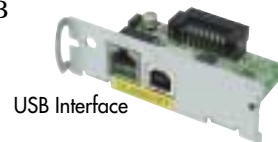
Industry-Leading Innovation

Epson doesn't just focus on hardware development.

OLE POS application software simplifies POS application development in Windows® through the use of modules and objects.

It also enables control of POS devices regardless of the kind of hardware. JavaPOS™ does the same for application development in a Java™ environment. There's also ESC/POS®, Epson's proprietary control system enabling versatile POS system construction with high scalability.

Other examples of Epson's cutting-edge technology include customer displays ready to support USB and Ethernet interfaces.







USB Interface



Ethernet Interface

Technology at a glance

	Impact 		Thermal 		Hybrid 		Inkjet 	
Features	Extremely durable Low maintenance requirements Epson models feature 9-pin technology for superior quality		Fast and quiet Direct printing to paper eliminates need for ribbon Easy paper loading		Combine thermal and impact printing capabilities		Fast and silent Ideal printers for PC output Plain paper printing capability 2-color / Full-color printing	
Good for	Speed and clarity Reliability Low consumables cost (ribbons, plain paper) Capabilities such as check endorsement, validation etc.		Virtually silent printing High-resolution graphics High-speed output Printing labels and tickets Barcode printing		Quiet, high-speed operation High-resolution graphics Multi-part printing Enable check endorsement, validation etc.		Speed and print clarity High-resolution graphics High-speed printing Barcode printing capability Highlight printing (company logos etc.)	
Recommended Epson printers	TM-U220 Series TM-U325 TM-U675 TM-U950	TM-U230 TM-U590 TM-U295	TM-T90 TM-L90 TM-L60II TM-T88IV	TM-P60	TM-H5000II TM-H6000III	TM-J2000/J2100 TM-J7000/J7100 TM-J7500/J7600 TM-J9000/J9100 TM-C100		

Inkjet Printers



TM Series

Using its original SEAJet® technology, Epson brings you an impressive range of inkjet printers for POS applications. Printers in the range provide a number of outstanding features such as graphic and 2-color / Full-color printing, and low cost of ownership.

Inkjet TM-J9000/J9100

Inkjet Printer with Check Scanner and Card Scanner



New Banking Printer from Epson

Now banks can take advantage of all the benefits of check imaging capture with Epson's family of inkjet printers featuring a card image scanner function and digital check imaging. In addition, these multifunction inkjet printers offer speedy high-resolution one- and two-color receipt printing, drop-in validation and more.

Epson Ecology Product



This product is an Epson Ecology Product.

The product is miniaturized by unifying many functions. This product has achieved the level equal to the TM-J7000: Stand-by mode, 4.9 W (with PS-180).

Print method	Serial inkjet dot matrix (180 dpi x 180 dpi)
Print font	Font: 12 x 24 / 9 x 17 Column capacity (columns): Receipt: 40 / 53, Validation: 62 / 82 Character size (mm): 1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H) Character set: 95 Alphanumeric, 48 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE39, CODE93, CODE128, ITF, CODABAR (NW7) Characters per inch: 15 cpi / 20 cpi
Interfaces	USB 2.0, Dealer option: RS-232, Bi-directional parallel, Ethernet
Data buffer	4 KB
Print speed	Character: 14.3 lps (8 lines/inch), Graphic: 43 mm / sec. (Receipt: High speed mode, paper width 76 mm, full columns print)
Paper	Dimensions (mm): Receipt: 76, Validation: 68 to 100 x 152 to 230 (H x W) Thickness (mm): Receipt: 0.06 to 0.09, Validation: 0.09 to 0.13
Ink Cartridge	Single color: SJIC8 (K) : Black (for J9000 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B) : Blue, SJIC7 (G) : Green (for J9100)
Ink life (characters)	Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined)
Power	24 VDC ± 10%
Power consumption	Operating: Approx. 1.0A, Stand-by: Approx. 0.2A
Reliability	MTBF: 180,000 hours MCBF: 2,960,000 transactions (This is an average failure interval based on failures relating to wearout and random failures up to the life of 1,000,000 transactions) Life: 1,000,000 sheets (including those for reading check paper and card)
Overall dimensions (mm)	466(389) (W) x 232 (D) x 180 (H) (with ASF) 310(236) (W) x 232 (D) x 180 (H) (without ASF)
Mass (Approx.)	5.2 kg (with ASF) / 4.9 kg (without ASF)
EMC standards	VCCI class A, FCC class A, CE marking, AS/NZS CISPR22 class A
Power supply (option)	PS-180 (option)
Factory Options	Auto Sheet Feeder (ASF) with Double Feed Detection Function and Pocket
Safety standards	UL / CSA / EN

Image Scanner Specifications

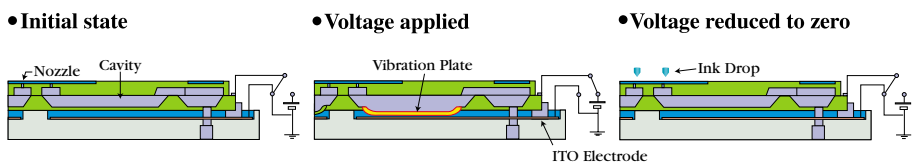
	Check	Card
Scanner type	Contact image sensor (CIS)	
Resolution	203 dpi	
Gradation	Bi-tonal (black/white), 256-level gray scale	256-level gray scale
Data compression method	Bi-tonal: CCITT/group4, JPEG	JPEG
Data transmission format	RAW / Bi-tonal: TIFF / 256-level gray scale: JPEG, TIFF, BMP	
Scanning area	100 mm (H) x Max. 254 mm (L)	60 mm (H) x 100 mm (L)
Scanning speed	300 mm / sec.	120 mm / sec.
Check scanner operation	30 Document Per Min. (without endorsement printer)	
Paper	Normal quality paper	ISO/IEC7810 compliant (except for embossed material)
Size	68 to 100 mm (H) x 152 to 230 mm (L) (min. 68 x 152 mm)	53.92 to 54.18 mm (H) x 85.47 to 85.90 mm (L)
Thickness	0.09 to 0.13 mm (single-ply)	0.5 to 0.84 mm
Curvature	-	2 mm or less (ISO/IEC7810)



SEAJet® Technology

SEAJet® is a newly developed original Epson inkjet technology aimed at small printers for POS and other commercial uses. This technology allows the development of compact print heads, energy efficient print heads, and gives POS printers high-resolution printing capability.

SEAJet® Acting Principle



Inkjet TM-J7000 Series



TM-J7000/J7100

TM-J7500/J7600

High Quality Inkjet Printing

Thanks to Epson's world-renowned inkjet printing technology, its TM-J7000 series printers for POS systems provide users with superb inkjet printing quality on receipts and slips. These printers are capable of printing logos and graphics, and the TM-J7100/J7600 adds a new dimension with attractive 2-color output.

High Performance

Despite its small footprint and compact size, the TM-J7000/J7100 boasts exceptional performance. Thanks to Epson's original technology, endorsement on the reverse side of personal checks is possible in a single pass, cutting the time taken for this operation to a mere 12 seconds, a fraction the speed of conventional printers.

Inkjet TM-J2000/J2100



High Performance in a Compact Body

Although compact with a small, space-saving format, the Epson TM-J2000/J2100 delivers outstanding performance and attractive receipts. Customers will be impressed by the eye-catching 2-color output of the TM-J2100.

Easy to Use

The Epson TM-J2000/J2100 feature a full-frontal drop-in paper loading system that makes it easy to replace paper and cartridges.



Inkjet Receipt and Slip Printer

Print method	Serial inkjet dot matrix (180 dpi x 180 dpi)
Print font	Font 12 x 24 / 9 x 17
Column capacity (columns)	Receipt: 82.5 mm: 42 / 56 76 mm: 40 / 53 69.5 mm: 36 / 48 57.5 mm: 30 / 40 Slip: 48 / 64 Endorsement: 46 / 61 (for J7000 / J7100) Slip: 80/106 (for J7500 / J7600)
Character size (mm)	1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H)
Character set	95 Alphanumeric, 37 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7), Two-dimensional code: PDF417
Characters per inch	15 cpi / 20 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB
Print speed	Character: 14.3 lps Graphic: 43 mm / sec. (Paper width 76 mm, Economy, High speed mode)
Paper	Dimensions (mm) Receipt: 57.5 ± 0.5, 69.5 ± 0.5, 76 ± 0.5, 82.5 ± 0.5 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Endorsement: 68 to 101.6 (W) x 150 to 223 (L) (for J7000 / J7100)
Thickness (mm)	Receipt: 0.06 to 0.09 Slip: 0.09 to 0.2 Endorsement: 0.09 to 0.13 (for J7000 / J7100)
Ink Cartridge	Single color: SJIC8 (K) : Black (for J7000 / J7500 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B) : Blue, SJIC7 (G) : Green (for J7100 / J7600)
Ink life (characters)	Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined)
Power	24 VDC ± 10%
Power consumption	Operating: Approx. 0.5 A Stand-by: Approx. 70 mA (for J7000 / J7100) Stand-by: Approx. 80 mA (for J7500 / J7600)
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 50,000,000 lines
Overall dimensions (mm)	195 (W) x 237 (D) x 188 (H) (for J7000 / J7100) 251 (W) x 237 (D) x 188 (H) (for J7500 / J7600)
Mass (Approx.)	4.4 kg (for J7000 / J7100), 4.9kg (for J7500 / J7600)
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Factory options	MICR device, Endorsement Printing (for J7000 / J7100)
Safety standards	UL / CSA / EN



Inkjet Receipt Printer

Print method	Serial inkjet dot matrix (180 dpi x 180 dpi)
Print font	Font 12 x 24 / 9 x 17
Column capacity (columns)	82.5 mm: 42 / 56, 76 mm: 40 / 53, 70 mm: 36 / 48, 58 mm: 30 / 40
Character size (mm)	1.69 (W) x 3.38 (H) / 1.27 (W) x 2.4 (H)
Character set	ASCII, WPC1252, PC437, PC850, PC852, PC858, PC860, PC863, PC865, PC866, Custom Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), 2 of 5 (ITF), CODE 39, CODE 93, CODE 128, CODABAR (NW7)
Characters per inch	15 cpi / 20 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 512 bytes
Print speed	Character: 14.7 lps (8 lines / inch) Graphic: 43 mm / sec. (76 mm width paper, Full columns print)
Paper	Dimensions (mm) 57.5 ± 0.5, 69.5 ± 0.5, 76 ± 0.5, 82.5 ± 0.5
Thickness (mm)	0.06 to 0.11
Ink Cartridge	Single color: SJIC5 (K): Black (for J2000 only) Two color: SJIC3 (K): Black, SJIC4 (R): Red, SJIC4 (B): Blue, SJIC4 (G): Green (for J2100)
Ink life (characters)	Single color: Approx. 24,000,000 Two color: Approx. 17,000,000 (2 colors combined)
Power	24 VDC ± 10%
Power consumption	Operating: Approx. 1A, Stand-by: Approx. 65mA
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 50,000,000 lines
Overall dimensions (mm)	195 (W) x 250 (D) (275 D with overhanging ledge) x 195 (H)
Mass (Approx.)	4.7 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Safety standards	UL / CSA / EN

Inkjet TM-C100

Full-Color Inkjet Printer

Full-Color Inkjet Printer for Business Use

The TM-C100 is a high performance inkjet printer for on demand full-color printing specially designed for business use. With its outstanding performance, your communication with the customer and your store operation will be dramatically improved.

High Durability

Its high durability is suitable for use in hectic business environments. (Autocutter: approx. 200,000 cuts, ASF: approx. 200,000 sheets)

Compact and Space Saving

The compact design with a small footprint means the printer fits snugly on your counter with a width of only 210 mm (8.27 in), freeing up valuable counter space.

High-Performance Full-Color Printing

Offers high-performance full-color printing using 4-color pigment ink (CMYK in a 4-color combined ink cartridge). Its superior waterproof and lightfast performance meets business application needs.

Various Papers Usable

The versatile TM-C100 suits a wide range of printing needs and applications. As various paper media (normal paper, exclusive paper [fine/mat], normal continuous label paper) and media sizes are selectable, you can use the printer for a broad range of applications, such as tickets, color coupons, price tags, on demand POP, recipes, medical instructions, member's cards, business cards, and message cards. Moreover, you can select the model that uses roll paper with an autocutter or the model that uses cut sheets with an Auto Sheet Feeder (ASF) to meet your needs.



	Roll Paper model	Auto Sheet Feeder model
Print method	Serial inkjet dot matrix (Max. 360 dpi x 360 dpi)	
Print font	Not equipped with print font and print all data as the graphic data	
Bar code	This printer does not have a bar code/two-dimensional symbol encoding function; however, a bar code/two-dimensional symbol that can be read with a bar code/two-dimensional symbol reader can be created by printing bar code/two-dimensional symbol data (graphic data) provided by users. UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7) Two-dimensional code: PDF417	
Interfaces	USB	
Print speed.....Four-color	Max. 35 mm / sec. (printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing)	
Single-color	Max. 51 mm / sec. (printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing)	
Paper	Normal paper, exclusive paper (fine/mat), Normal continuous label paper	Normal paper, exclusive paper (fine/mat)
Dimensions (mm)	Roll paper: 45 to 105 (W) x dia. 90.0	ASF: 55 to 135 (W) x 85 to 210 (L) insertion by hand: 49 to 210 (W) x 120 to 297 (L)
Thickness (mm)	Roll paper: 0.06 to 0.23	ASF: 0.08 to 0.25 insertion by hand: 0.08 to 0.25
Ink cartridge	SJIC9P (4-color combined, pigment ink) SJIC10P(K) (Black, pigment ink)	
Ink life	660 pages (printable area 100 x 280 mm, with each of the colors covering 8.5% of the area, high speed mode printing) 2,500 pages (printable area 100 x 150 mm, with each of the colors covering 6.0% of the area, high speed mode printing)	
Power	AC adapter (included)	
Power consumption	Operating : Approx. 11W (mean)	
Reliability	180,000 hours	
MCBF	30,000,000 passes	
Overall dimensions (mm)	210 (W) x 345 (D) x 152 (H)	210 (W) x 367 (D) x 245 (H)
Mass (Approx.)	2.0 kg	1.9 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	
Power supply	Exclusive AC adapter (included)	
Safety Standards	UL / CSA / EN	
Operating System	Microsoft Windows® 2000 Professional SP4 or later Microsoft Windows® XP Professional SP1 or later	



Thermal Line Printers



TM Series

Extremely fast, quiet output and exceptionally clear characters are just some of the advantages of thermal printers. There's no need to change the ribbon because printing is performed directly onto the paper. Paper loading is easy due to a simplified paper path. And label and ticket printing are possible including barcode capability.

Thermal Line TM-P60



The TM-P60 – Mobile wireless printer

The TM-P60 can go anywhere you need it to go. Built with Epson's famous quality and reliability, the TM-P60 is designed to meet the needs of both retail and hospitality for high-speed, on-the-go thermal receipt printing.

High Speed Printing and Autocutter Equipped

Offers clear, high-speed thermal printing up to 70 mm/sec. printing speed and equipped with an autocutter (receipt model). It makes operation more efficient and it will lead to an increase in customer satisfaction because the customers don't have to wait for printing.

Label peeler model available

The TM-P60 is also available with an automatic label peeler function. It peels labels off of liner (backing paper) automatically and it's so easy to operate the peeler function. *Please ask your Epson representative about specifications.



Easy Operation

With one-hand paper and battery replacement, the TM-P60 is so easy to use that it requires almost no training. It will decrease not only the risk of breakdown but also the cost of educating operators.



High-Speed Mobile Wireless Printer

Long Battery Life

The TM-P60 offers an industry-leading battery life of up to 10 hours with IEEE 802.11b models and up to 20 hours with Bluetooth® models* – long enough for a full shift of on-the-go receipt and order printing. It will surely increase the operational efficiency that decreases operational cost.

*The battery life differs depending on the system environment.

High Durability

The TM-P60 is built to survive drops from 1.2m (3.9 ft.).

Make Use of Proprietary Applications

The TM-P60 comes with widely used ESC/POS® command codes, and APD/OPOS/JavaPOS™ drivers are available, which means current applications written for Epson's popular TM-T88 series can instantly be used with the TM-P60 with minimum modification.

Supports IEEE 802.11b and Bluetooth® Interfaces

You can keep a printing application using the Epson APD/OPOS/JavaPOS™ drivers on your store server and develop a printing application that does not depend on the OS of the PDA. And the PDA doesn't need to have both IEEE 802.11b and Bluetooth® interfaces, so there is a reduction of power consumption and the cost needed to install a PDA.

Available for a Wide Range of Printing

The TM-P60 is designed to meet a wide range of printing needs, such as payment POS at restaurant tables, line busting POS in busy periods at department stores and fast food restaurants, and mobile POS for quick service at such locations as stadiums and amusement places. Labels can be printed and attached on site for many uses, such as shelf labels, discount labels, and price tags at retail stores.



Print method	Thermal line printing
Print font	Font 12 x 24 / 10 x 24 / 8 x 16 Column capacity (columns) ... 35 / 42 / 52 (58 mm), 36 / 43 / 54 (60 mm) Character size (mm) 1.50 (W) x 3.0 (H) / 1.25 (W) x 3.0 (H) / 1.0 (W) x 2.0 (H) Character set 95 Alphanumeric, 48 International, 128 x 10 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR Characters per inch 16 / 20 / 25 cpi
Interfaces	IEEE 802.11b or Bluetooth®, RS-232
Data buffer	128 bytes
Print speed	Max. 70 mm / sec.
Paper	Dimensions (mm) 57.5 ± 0.5 (W) x dia. 51.0 (max.) (59.5 ± 0.5 (W) by removing the spacer installed) Thickness (mm) 0.05 to 0.08
Operating temperature	0 to 50°C
Battery capacity	IEEE 802.11b: 10 hours, Bluetooth®: 20 hours (It differs depending on the system environment. For detail, please contact your Epson representative.)
Reliability	MTBF 120,000 hours MCBF 16,000,000 lines Autocutter life 500,000 cuts
Overall dimensions (mm)	103 (W) x 159 (D) x 65 (H)
Mass (Approx.)	0.67 kg (including battery)
EMC standards	VCCI class B, FCC class B, CE marking
Power supply	PS-10
Accessories	Li-ion battery pack LIP-2500 x 1, Roll paper dia. 40 mm x 1
Options	Quick charger: OT-CH60, RS-232 cable: OT-RS60 Spare battery: LIP-2500, Shoulder strap: OT-ST60
Safety Standards	UL / CSA / EN



*Specs for receipt model

Thermal Line
TM-T88IV

High-Speed, High-Performance Thermal Printer



Fast and versatile printing



The TM-T88IV prints receipt at speeds of up to 200 mm per second for both text and graphics - 30% faster than the TM-T88III. With advanced graphic and two dimensional code (PDF417 and QR code) printing capability, this printer provides highly customized receipts including logos and promotional messages. Its flexible page mode gives you a choice of receipt layouts.

High reliability

With an MCBF of 52 million lines of receipt printing, the TM-T88IV delivers outstanding reliability that is rugged enough for the high-volume environments.

Compact design

The TM-T88IV has a small footprint that allows for flexible placement on your counter or wall using an optional wall-hanging bracket, freeing up valuable counter space. Furthermore, the TM-T88IV offers an improved paper cover design for increased spill resistance. Two case colors (Epson Cool White or Epson Dark Gray) are available to suit your needs.

Print method	Thermal line printing
Print font	Font 9 x 17 / 12 x 24
	Column capacity (columns) ... 56 / 42
	Character size (mm) 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H)
	Character set 95 Alphanumeric, 37 International, 128 x 11 Graphic Traditional / Simplified Chinese, Korean
	Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR
	Two-dimensional code: PDF417, QRCode
	Characters per inch 20.0 cpi / 15.0 cpi
Interfaces	RS-232, Bi-directional parallel Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 45 bytes
Print speed	Max. 200 mm / sec.
Paper	Dimensions (mm) Roll paper: 79.5 ± 0.5 (W) x dia. 83.0
	Thickness (mm)..... 0.06 to 0.07
Power	24 VDC ± 7%
Power consumption	Approx. 1.8 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 360,000 hours MCBF: 52,000,000 lines
Overall dimensions (mm)	145 (W) x 195 (D) x 148 (H)
Mass (Approx.)	1.8 kg
EMC standards	FCC, VCCI class A CE marking, AS / NZS CISPR22 class B
Power supply	PS-180 (option)
Option	Wall-hanging bracket WH-10
Safety standards	UL / CSA / EN



Thermal Line TM-L90 & Epson Business Label Software



Label peeler model

High Speed and Performance

They don't come much faster than the TM-L90, Epson's popular counter-based label printer. Printing at an impressive 150 mm/sec., users can also enjoy the benefits of barcode and 2-color labels.

*Max. 2-color printing speed is 90 mm/sec.

**To print in two colors, users must load dedicated thermal paper and set the printer to the 2-color printing mode.

Label peeler model available

The TM-L90 is also available with an automatic label peeler function. It peels labels off of liner (backing paper) automatically and it's so easy to operate the peeler function.

High-Speed, High Performance Label Printer

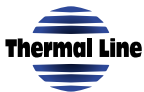
Epson Business Label Software

Now available with the TM-L90 is Epson Business Label Software, exciting, easy-to-use label design software from Epson. Following a series of simple steps, users can now create and print original labels - complete with colors and barcodes. Perfectly complementing the advanced features and high-speed printing of the TM-L90, Epson Business Label Software also features consecutive number and date/ time counters, support in eight languages and database (ODBC, CSV & xls) link capability.

Print method	Thermal line printing
Print font	Font 9 x 17 / 12 x 24
	Column capacity (columns) ... 64 / 48
	Character size (mm) 1.1 (W) x 2.1 (H) / 1.5 (W) x 3.0 (H)
	Character set 95 Alphanumeric, 37 International, 128 x 11 Graphic, Barcode: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417, MaxiCode, QRCode
	Characters per inch 22.6 cpi / 16.9 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 45 bytes
Print speed	Max. 150 mm / sec.
Paper	Dimensions (mm) Rollpaper: Max. 79.5 ± 0.5 x dia. 90.0
	Thickness (mm) 0.06 - 0.15
Power	24 VDC ± 7%
Power consumption	Approx. 1.7 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 360,000 hours MCBF: 70,000,000 lines (when printing receipt)
Overall dimensions (mm)	140 (W) x 148 (D) x 203 (H)
Mass (Approx.)	1.9 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Option	Wall-hanging bracket WH-10
Safety standards	UL / CSA / EN



Thermal Line TM-T90



High performance

The Epson TM-T90 is designed with customer satisfaction in mind. With its astonishing speed, beautiful 2-color printing, and extraordinary versatility, you can be sure that the TM-T90 won't let you down.

Versatile and Easy to Use

A simple drop-in loading system means that even inexperienced operators can load paper rolls with the minimum of effort. Capable of handling paper rolls of up to 102 mm in diameter, the compact TM-T90 can be unobtrusively located in any retail environment.

High Performance Thermal Printer

Print method	Thermal line printing
Print font	Font 9 x 17 / 12 x 24
	Column capacity (columns) ... 56 / 42
	Character size (mm) 1.3 (W) x 2.4 (H) / 1.7 (W) x 3.4 (H)
	Character set 95 Alphanumeric, 37 International, 128 x 11 Graphic, Barcode: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417
	Characters per inch 20.0 cpi / 15.0 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 45 bytes
Print speed	Max. 170 mm / sec.
Paper	Dimensions (mm) Rollpaper: Max. 79.5 ± 0.5 x dia. 102.0
	Thickness (mm) 0.06 - 0.08
Power	24 VDC ± 7%
Power consumption	Approx. 1.7 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 360,000 hours MCBF: 70,000,000 lines
Overall dimensions (mm)	140 (W) x 201 (D) x 148 (H)
Mass (Approx.)	1.8 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Option	Wall-hanging bracket WH-10
Safety standards	UL / CSA / EN



TM Series

Hybrid printers allow retailers to enjoy the benefits of both impact and thermal printing. Including the digital check imaging function now offered with the TM-H6000II/III, Epson's powerful range of hybrid printers are designed to fit a wide variety of user needs.

Receipt: Thermal Line, Slip: 9-pin, serial dot

TM-H6000III



Ultra-Fast Thermal Receipt Printing

The TM-H6000III prints receipt at speeds of up to 200 mm per second – 15 % faster than the TM-H6000II. With two-color*, advanced graphic and barcode printing capability, this printer provides highly customized receipts including logos and promotional messages.

*To print in two colors, users must load dedicated thermal paper and set the printer to the two-color printing mode.

Check Printing Convenience

Enables quick printing and endorsement of checks in a single pass. This eliminates the need to reverse the check and shortens check printing time, which means faster transaction and throughput times.

Improved Reliability

With an improved MCBF of 72 million lines of receipt printing, the TM-H6000III delivers outstanding reliability that is rugged enough for the high-volume environments.

High-Speed, High Performance Hybrid Printer

Print method	Receipt: Thermal line printing, Slip: 9-pin serial impact dot matrix E / P: 8-pin shuttle impact dot matrix
Print font	Font: Receipt: 9 x 17 / 12 x 24, Slip: 5 x 9 / 7 x 9, E / P: 5 x 7
Column capacity (columns)	Receipt: 56 / 42, Slip: 45 / 60, E / P: 40
Character size (mm)	Receipt: 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H) Slip: 1.24 (W) x 3.1 (H) / 1.56 (W) x 3.1 (H) E / P: 1.1 (W) x 2.42 (H)
Character set	Receipt / Slip: 95 Alphanumeric, 37 International, Receipt: 128 x 11 Graphic, Slip: 128 x 12 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE 39, CODE 93, CODE 128, ITF, CODABAR, Two-dimensional code: PDF417 (Receipt only)
Characters per inch	Slip: 13.3 cpi / 17.8 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 45 bytes
Print speed	Receipt: Max. 200 mm sec. Slip: Approx. 5.7 lps (at 40 columns, 17.8 cpi) E / P: Approx. 1.9 lps
Paper	Dimensions (mm): Receipt: Thermal roll paper 79.5 ± 0.5 (W) x dia. 83.0 Slip & E / P: 68 to 230 x 68 to 297 mm (W x L) NOTE: The minimum paper size is 68 x 152 mm Thickness (mm): Receipt: 0.06 to 0.09, Slip: 0.09 to 0.31 E / P: 0.09 to 0.2
Copy capability	Slip: One original and three copies E / P: One original single ply
Inked ribbon	Slip: ERC-32 (Black), E / P: ERC-41 (Black)
Ribbon life	Slip: 4,000,000 characters E / P: 800,000 characters
Power	24 VDC ± 10%
Power consumption	Receipt: Approx. 1.8 A Slip: Approx. 1.7 A
D.K.D.function	2 drivers
Reliability	MTBF: Receipt: 360,000 hours, Slip: 180,000 hours MCBF: Receipt: 72,000,000 lines, Slip: 18,000,000 lines
Overall dimensions (mm)	186 (W) x 298 (D) x 185 (H)
Mass (Approx.)	5.3 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548
Power supply	PS-180 (option)
Factory options	MICR device, Endorsement printer (E / P)
Safety standards	UL / CSA / EN



Receipt: Thermal Line, Slip: 9-pin, serial dot

TM-H6000II/III with Check Scanner

Exclusive Digital Check Imaging Tool

The popular TM-H6000II/III is now available with an exclusive new feature an image scanner that uses digital check imaging technology.

Leading Technology

The TM-H6000II/III with check scanner converts checks to electronic data that can be sent to financial institutions. Leading technologies employed in this system include high quality bi-tonal (black/white) or gray scale imaging and high-performance, intelligent data compression.

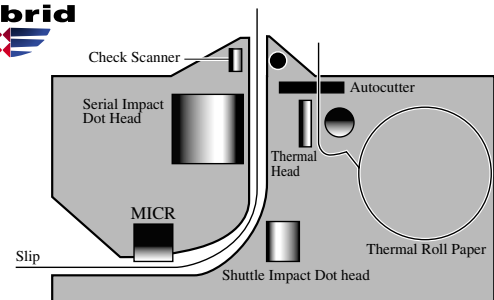
Improved Efficiency

Adding an image scanner to the MICR* and check endorsement capability of the TM-H6000II/III, reduces the retailer's workload at the end of the day.

*Magnetic Ink Character Recognition.



High-Speed Printer with Digital Check Imaging



Check Scanner Specifications

Scanner type	Contact image sensor (CIS)
Resolution	200 dpi
Gradation	Bi-tonal (black/white) or gray scale are selectable with a command.
Scanning speed	120 mm / sec.
Data compression method	Bi-tonal: CCITT/group 4, Gray scale: JPEG
Data transmission format	Bi-tonal: TIFF (If the data is transmitted without compressing data, raw data or BMP format.) Gray scale: JFIF (JPEG file format) (If the data is transmitted without compressing data, raw data, BMP format, or TIFF format.)
Memory for scanning	4M bytes
Scanning area	Width: Max. 100 mm, Length: Max. 230 mm
Non scannable area	Max. 2 mm from check bottom edge Max. 5 mm from check right edge Max. 1.5 mm from check left edge
Mechanism life	240,000 passes (when used with US personal checks)

Receipt: Thermal Line, Slip: 9-pin, serial dot

TM-H6000II/III with Card Scanner



High-Speed Printer with Card Scanner

The TM-H6000II/III with Card Scanner is the only POS printer with an integrated check & ID card scanner

TM-H6000II/III with card scanner offers not only high speed with two color receipt printing and superior slip printing but also scanning and capturing customer's ID card. In just a few seconds for scanning & capturing the customer's ID card, you can store customer ID card image at the point of sales.

Fraud Deterrent

TM-H6000II/III with card scanner can scan the customer's ID card at checkout, and ID collection is one of the most powerful deterrents to check fraud and fits the ID verification laws for every required item.

Card Scanner Specifications

Scanner type	Contact image sensor (CIS)
Resolution	200 dpi (H) x 200 dpi (V)
Gradation	256-level gray scale
Scanning area	56 x 90 mm
Scanning speed	120 mm/sec.
Data compression method	JPEG
Data transmission format	JFIF (JPEG file format) (If the data is transmitted without compressing data, raw data, BMP format, or TIFF format)

Card Specifications

Type of card	Based on ISO/IEC7810 (except a card with embossing)
Card size	53.92 to 54.18 mm (W) x 85.47 to 85.90 mm (L) (Card type: ID-1)
Card thickness	0.5 to 0.84 mm
Curvature of card	2 mm or less (ISO/IEC7810)

Receipt: Thermal Line, Slip: 9-pin, serial dot

TM-H5000II



Thermal And Dot Output

This provides application versatility with thermal and dot matrix output. It also includes a speedy 120-mm/sec. receipt printing, and ladder and fence barcode printing.

Wide Slip Printing

Packed with exciting features, the TM-H5000II prints slips up to a width of 88 columns, with one original and four copies.



High-End POS System Printer

Print method	Receipt: Thermal line printing, Slip: 9-pin serial impact dot matrix
Print font	Font: Receipt: 9 x 17 / 12 x 24, Slip: 7 x 9 / 9 x 9 Column capacity (columns) Receipt: 56 / 42, Slip: 88 / 66 Character size (mm) Receipt: 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H), Slip: 1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H) Character set 95 Alphanumeric, 32 International, 128 x 8 Graphic (Receipt) 128 x 10 Graphic (Slip) Traditional / Simplified Chinese, Thai, Japanese Characters per inch Receipt: 20.0 cpi / 15.0 cpi, Slip: 16.7 cpi / 12.5 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 45 bytes
Print speed	Receipt: 120 mm / sec. (38 lps, 1 / 8" conversion), Slip: 311 / 233 cps
Paper	Dimensions (mm) Receipt: Thermal roll paper 79.5 ± 0.5 (W) x dia. 83.0, Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L) Thickness (mm) Receipt: 0.06 to 0.07, Slip: 0.09 to 0.2, (total thickness: ~ 0.36)
Copy capability	Slip: One original and four copies
Inked ribbon	ERC-31 (Black)
Ribbon life	4,500,000 characters
Power	24 VDC ± 10%
Power consumption	Receipt: Approx. 1.7 A, Slip: Approx. 1.9 A
D.K.D.function	2 drivers
Reliability	MTBF: Receipt: 360,000 hours, Slip: 180,000 hours MCBF: Receipt: 52,000,000 lines, Slip: 29,000,000 lines
Overall dimensions (mm)	252 (W) x 331 (D) x 201 (H), (excluding extended table)
Mass (Approx.)	6.5 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Factory options	MICR device
Safety standards	UL / CSA / EN

Impact Dot Matrix Printers



TM Series

Widely used for receipt printing, dot matrix printers are the only choice when the demand is for multi-part output. Other dot matrix printer benefits include exceptional durability that keeps maintenance costs low and economical operation. And the printing ribbon needs to be changed only occasionally. With Epson dot matrix printers, you also get high quality results thanks to the 9-pin heads.

9-pin, serial dot

TM-U220 Series



High Cost-Performance Printers

The TM-U220 — The New Industry-wide Standard in Printing

The TM-U220 is the easy to use yet powerful successor to the TM-U210, whose ease-of-use and reliability have made it an overwhelming favorite around the world.

Outstanding Compatibility

The TM-U220 printers are designed to be compatible with existing systems built around a TM-U210. These systems can be upgraded simply by dropping in a TM-U220. Moreover, since the external dimensions are nearly identical, there is no need to change the installation environment. The transition to the new model is as smooth as can be.

Easy Operation

Free busy operators from troublesome roll paper and ribbon cassette replacement. The TM-U220 makes these chores a snap. Simply pop the cover, drop in the paper or ribbon, shut the cover. You're back in business.



Higher Printing Speed

A full 30% faster than its predecessors, the TM-U220 printers provide high efficiency throughput. Retailers can hand receipts to customers faster. Restaurant kitchens can receive orders quickly.

Superior Versatility

The versatile TM-U220 suits a wide range of needs and applications. Each type is powerful, yet compact enough to fit in confined spaces. The wall-mountable Type B and Type D free up valuable counter space in kitchens and other tight locations. Moreover, both Type B and Type D handle your choice of 58, 69, or 76 mm width roll paper.

MODEL	Item	Standard device / unit	Applications	Appearance
Type A	Take up / Automatic cutter		Receipt & Journal Printer	
Type B	Automatic cutter		Kitchen Receipt / ticket	
Type D			Receipt	



Print method	9-pin, serial impact dot matrix
Print font	Font 7 x 9 / 9 x 9
Column capacity (columns)	40 / 42 or 33 / 35
Character size (mm)	1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
Character set	95 Alphanumeric, 48 International, 128 x 12 Graphic Traditional / Simplified Chinese, Thai, Japanese, Korean
Characters per inch	17.8 / 16 cpi or 14.5 / 13.3 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: USB, 10 Base-T I/F
Data buffer	4 KB or 40 bytes
Print speed	4.7 lps (at 40 columns, 16 cpi), 6.0 lps (at 30 columns, 16 cpi)
Paper	Dimensions (mm) Roll paper: 57.5 ± 0.5, 69.5 ± 0.5, 76.0 ± 0.5, (W) x dia. 83.0 Thickness (mm) 0.06 to 0.085
Copy capability	One original and one copy
Inked ribbon	ERC-38 (Black, Black / Red)
Ribbon life	Black: 3,000,000 characters B / R: 1,500,000 characters (Black) / 750,000 characters (Red)
Power	AC adapter (included)
Power consumption	Approx. 31 W
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 18,000,000 lines
Overall dimensions (mm)	Type A: 160 (W) x 286 (D) x 157.5 (H) Type B: 160 (W) x 248 (D) x 138.5 (H) Type D: 160 (W) x 248 (D) x 138.5 (H)
Mass (Approx.)	Type A: 2.7 kg, Type B: 2.5 kg, Type D: 2.3 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	Exclusive AC adapter (included)
Factory options	Near-end sensor
Option	Wall-hanging bracket WH-10
Safety standards	UL / CSA / EN



9-pin, serial dot

TM-U230



Water Resistant and Easy to Clean

With a water-resistant case and a unique drain channel, the TM-U230 is a perfect addition to any busy kitchen. Its flat surface makes it easy to wipe clean, while a fine coating makes it possible to remove oils, sauces, and other kitchen stains.



Flexible and Versatile

Install the TM-U230 wherever you want: vertically (paper exit at the front), horizontally (paper exit on top), or hanging on the wall (bracket optional). And with Ethernet and USB available as options, you can be sure that the TM-U230 will fit into any kitchen network. Ethernet capability allows this unique kitchen printer to be connected to a large network or an Order Entry System.

Dirt-Resistant Kitchen Printer

Print method	9-pin, serial impact dot matrix
Print font	Font 7 x 9 / 9 x 9 Column capacity (columns) 40 / 42 or 33 / 35 Character size (mm) 1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H) Character set 95 Alphanumeric, 37 International, 128 x 8 Graphic Characters per inch 16 or 17.8 cpi, 13.3 or 14.5 cpi
Interfaces	RS-232, Bi-directional parallel, 10 Base-T I/F Dealer option: RS-485, USB
Data buffer	1 KB / 16 KB
Print speed	3.5 lps (at 40 columns, 16 cpi) 6.4 lps (at 16 columns, 16 cpi)
Paper	Dimensions (mm) Roll paper: 76.0 ± 0.5 (W) x dia. 83.0 Thickness (mm) 0.06 to 0.085
Copy capability	One original
Inked ribbon	ERC-38 (Black, Black / Red)
Ribbon life	Black: 3,000,000 characters B / R: 1,500,000 characters (Black), 750,000 characters (Red)
Power	24 ~ 34 VDC
Power consumption	Approx. 43 W
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 18,000,000 lines
Overall dimensions (mm)	166 (W) x 168 (D) x 259.5 (H)
Mass (Approx.)	2.8 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	Power supply built-in model / Power supply separate model
Options	Wall-hanging bracket WH-10
Safety standards	UL / CSA / EN



9-pin, serial dot

TM-U950



Outstanding Performance & Versatility

Prints everything from slips and receipts to journals. Ultra-fast output of up to 88 columns on A4-size paper with bi-directional, logic-seeking printing.

Reliability & Convenience

The reliability is there. Plus a wide range of handy features including automatic paper cutting and easy paper loading and ribbon changing.



Versatile Printer For Large POS Systems

Print method	9-pin, serial impact dot matrix
Print font	Font 7 x 9 / 9 x 9 Column capacity (columns) Receipt (Journal): 40 / 30, Slip: 88 / 66 Character size (mm) 1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H) Character set 95 Alphanumeric, 32 International, 128 x 9 Graphic Characters per inch 16.7 cpi / 12.5 cpi
Interfaces	RS-232, Bi-directional parallel
Data buffer	2 KB or 32 bytes
Print speed	311 / 233 cps
Paper	Dimensions (mm) Receipt (Journal): Roll paper: 69.5 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L) Thickness (mm) Receipt (Journal): 0.06 to 0.09, Slip: 0.09 to 0.36
Copy capability	One original and four copies (for slip)
Inked ribbon	ERC-31 (Black)
Ribbon life	4,500,000 characters
Power	24 VDC ± 10%
Power consumption	Approx. 1.8 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 18,000,000 lines
Overall dimensions (mm)	251 (W) x 298 (D) x 194.5 (H)
Mass (Approx.)	5.6 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Factory options	MICR device
Safety standards	UL / CSA / EN



9-pin, serial dot

TM-U675



Fast & Super Quiet

Throughput is fast thanks to bi-directional minimum distance printing. Quieter than other impact dot matrix printers of its class.

Handy Features

ASB (Automatic Status Back) function automatically transmits changes in printer status. Also offers the convenience of two-way paper loading.

High-Performance, Multi-Purpose Printer

Print method	9-pin serial impact dot matrix
Print font	Font 5 x 9 / 7 x 9
Column capacity (columns)	Receipt: 37 / 50, Slip / Validation: 45 / 60
Character size (mm)	1.56 (W) x 3.1 (H) / 1.24 (W) x 3.1 (H)
Character set	95 Alphanumeric, 37 International, 128 x 12 Graphic Traditional / Simplified Chinese, Korean
Characters per inch	13.3 cpi / 17.8 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 45 bytes
Print speed	Approx. 5.14 lps (at 40 columns, 17.8 cpi)
Paper	Dimensions (mm) Roll paper: 82.5 / 76.0 ±0.5 (W) x dia. 83.0 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Validation: 68 to 230 (W) x 68 to 230 (L) (min. 68 x 152)
Thickness (mm)	Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.2 (total thickness: 0.09 to 0.31)
Copy capability	One original and two copies
Inked ribbon	ERC-32 (Black)
Ribbon life	4,000,000 characters
Power	24 VDC ±10%
Power consumption	Approx. 1.8 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 37,000,000 lines
Overall dimensions (mm)	186 (W) x 298 (D) x 195 (H)
Mass (Approx.)	5.8 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Factory options	MICR device, Autocutter
Safety standards	UL / CSA / EN



9-pin, serial dot

TM-U325



Versatile Printing

Receipt printing and multi-line validation up to 9 lines from a compact, space-saving unit.

Quiet, Fast Output

Designed for environments where quiet operation is a must. Features logic-seeking control for fast 6.4 lps receipt and multi-line validation printing.

High-Performance 1.25 Station Printer

Print method	9-pin, serial impact dot matrix
Print font	Font 7 x 9 / 9 x 9
Column capacity (columns)	40 / 42 or 33 / 35 (3 half dots / 2 half dots space)
Character size (mm)	1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
Character set	95 Alphanumeric / 32 International, 128 x 8 Graphic
Characters per inch	16 or 17.8 cpi / 13.3 or 14.5 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 45 bytes
Print speed	Approx. 3.5 lps (at 40 columns, 16 cpi) Approx. 6.4 lps (at 16 columns, 16 cpi)
Paper	Dimensions (mm) Receipt: 76.0 ± 0.5 (W) x dia. 83.0 Validation: 135 (W) x 70 (L) to 182 (W) x 182 (L) (Maximum print lines: 9 lines)
Thickness (mm)	Receipt: 0.06 to 0.085 (total thickness: 0.2mm or less) Validation: 0.09 to 0.12 (total thickness: 0.09 to 0.31)
Copy capability	One original and two copies
Inked ribbon	ERC-38 (Black)
Ribbon life	3,000,000 characters
Power	AC adapter (included)
Power consumption	Approx. 43 W
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 49,000,000 lines
Overall dimensions (mm)	164 (W) x 240 (D) x 136 (H)
Mass (Approx.)	2.3 kg
EMC standards	FCC class A
Power supply	Exclusive AC adapter (included)
Safety standards	UL / CSA / EN



Slip Printers

TM Series

Compact, easy-to-use and exceptionally reliable, Epson's slip printers have what it takes to satisfy POS, banking and other transaction needs. One valuable feature is the ability to print slips with multiple copies.



9-pin, serial dot

TM-U590



Versatile Printing

Designed to handle virtually any printing task including output of slips up to 88 columns wide. Can also provide four copies with one original.

User-Friendly

Complete with the ESC/POS® command system for smooth, error-free operation. Printer operation status provided by the Automatic Status Back function.

Wide Slip Printer

Print method	9-pin, serial impact dot matrix
Print font	Font 7 x 9 / 9 x 9
	Column capacity (columns) 88 / 66
	Character size (mm) 1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
Character set	95 Alphanumeric, 32 International, 128 x 10 Graphic Traditional / Simplified Chinese
	Characters per inch 16.7 cpi / 12.5 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 69 bytes
Print speed	311 / 233 cps
Paper	Dimensions (mm) 70 (W) x 70 (L) to 210 (W) x 297 (L) Thickness (mm) 0.09 to 0.2 (total thickness: ~ 0.36)
Copy capability	One original and four copies
Inked ribbon	ERC-31 (Black)
Ribbon life	4,500,000 characters
Power	24 VDC ± 10%
Power consumption	Approx. 1.9 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 29,000,000 lines
Overall dimensions (mm)	252 (W) x 266 (D) x 185 (H)
Mass (Approx.)	5 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Safety standards	UL / CSA / EN



7-pin, shuttle dot

TM-U295



World's Smallest Slip Printer

Combines printing versatility and ultra-compact, space-saving design.

Printing Versatility

Provides a choice of character sizes, and enables printing in four directions.

Ultra-Compact Slip Printers

Print method	7-pin, shuttle impact dot matrix
Print font	Font 5 x 7 / 7 x 7
	Column capacity (columns) 35 / 42
	Character size (mm) 1.6 (W) x 2.9 (H) / 1.3 (W) x 2.9 (H)
Character set	95 Alphanumeric, 32 International, 128 x 4 Graphic
	Characters per inch 13.5 cpi / 16.2 cpi
Interfaces	RS-232, Bi-directional parallel
Data buffer	512 bytes or 35 bytes
Print speed	1.9 ~ 2.3 lps
Paper	Dimensions (mm) 80 (W) x 69 (L) to 182 (W) x 257 (L) Thickness (mm) 0.09 to 0.25 (total thickness with copy: ~ 0.35)
Copy capability	One original and two copies
Inked ribbon	ERC-27 (Black)
Ribbon life	1,000,000 characters
Power	24 VDC ± 10%
Power consumption	Approx. 600 mA (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 180,000 hours MCBF: 7,000,000 lines
Overall dimensions (mm)	180 (W) x 190.5 (D) x 101.5 (H)
Mass (Approx.)	1.6 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-180 (option)
Safety standards	UL / CSA / EN



Options

POWER SUPPLY



PS-180

Input	Output	Plug	Safety standard		
			UL	CSA	TÜV
100 to 240V AC	24 VDC, 2.0A	3P power jack	●	●	●

CUSTOMER DISPLAY



DM-D Series

RIBBON CASSETTES



ERC-38
for TM-U220, TM-U375,
TM-U325, TM-U230
(Black, Black/Red)



ERC-31
for TM-U950,
TM-U590, TM-H5000II,
(Black)



ERC-27
for TM-U295
(Black)



ERC-32
for TM-H6000III,
TM-U675
(Black)



ERC-41
for TM-H6000III
(Endorsement Printer)
(Black)

*An Epson ribbon is recommended.

INK CARTRIDGES



SJC3
for TM-J2100
(Black)



SJC4
for TM-J2100
(Red, Green, Blue)
Used with SJC3



SJC5
for TM-J2000
(Black)



SJC6
for
TM-J7100,
TM-J7600,
TM-J9100
(Black)



SJC7
for TM-J7100,
TM-J7600,
TM-J9100
(Red, Green,
Blue)
Used with SJC6



SJC8
for TM-J7000,
TM-J7500,
TM-J9000
(Black)



SJC9P
for TM-C100
(Cyan, Magenta,
Yellow,
Black)



SJC10P(K)
for TM-C100
(Black)

ACCESSORIES



DC-21
DC cable set
(for TM series)



WH-10
Wall-hanging bracket
for TM-T90/L90, TM-T88IV,
TM-U230, TM-U220



WT-5000
Extension table
for TM-H5000II

Expandability

UB-S01/02



UB-P02II



UB-U02III



UB-U04



UB-E02



UB-R02



Multiple Interfaces

TM Series printers feature a wide range of interfaces, including USB & Ethernet interfaces. Besides satisfying current customer needs, these enable easy upgrading in the future, an important consideration for growing businesses.

	UB-S01	UB-S02	UB-S09	UB-P02II	UB-U01III	UB-U02III	UB-U04	UB-E02	UB-R02
Data transfer format	RS-232	RS-485	RS-232	IEEE1284	USB	USB	USB w / Power	10/100BASE-TX	IEEE802.11b
Remarks			With DM-D connector		With hub & DM-D Connector	With DM-D connector	24 VDC		

* For the other various options, please contact your Epson representative.

Epson Setting POS Standards

Drivers for Wide-Ranging Applications

Unified POS Related Drivers

Unified POS combines two existing device interface standards (OPOS and JavaPOS™) in one specification of Point of Service Devices. Epson is a key player in these areas (Unified POS, OPOS and JavaPOS™), and promotes the standardization of peripheral device control drivers for the retail market. At the same time, we also provide drivers to a wide range of customers to support POS applications development. Working from customer feedback, our future aims include offering still better functions.



Epson OPOS ADK

Epson OPOS ADK, provides the versatility and convenience of applications development in Windows NT®, Windows® 2000, Windows® XP and WEPOS environments. Besides dramatically reducing the number of application steps, Epson OPOS ADK makes system upgrading pretty easy.

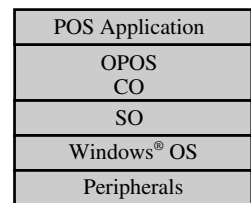
Epson JavaPOS™ ADK

Java™ is a platform-independent language widely used for POS and other applications. JavaPOS™ standard API makes peripheral devices easy to operate and supports quick system startup. Epson JavaPOS™ ADK provides support in mainly Linux® environments.

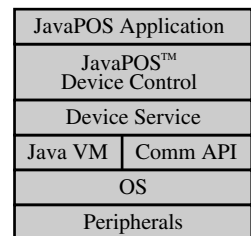
Standard Specifications

- ~ OPOS APG 1.9
- ~ JavaPOS™ PG 1.9

OPOS Architecture



JavaPOS™ Architecture



Migration To Non-POS Markets

Epson offers the Advanced Printer Driver to meet the needs of non-retail markets.

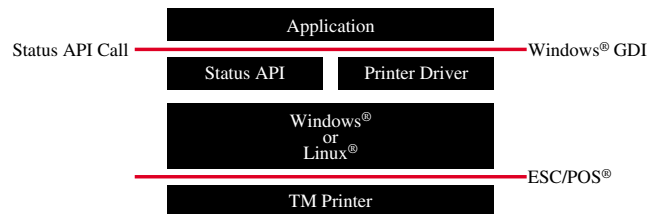
Epson Advanced Printer Driver

Advanced Printer Driver: Windows® Printer Driver + Status API

1. Status API allows use of Epson's original Printer Status function
2. Easy applications development in non-POS Windows® environments
3. Enables use of unique TM Series printer functions for other environments (image printing, network connection, spooling processing, etc.)

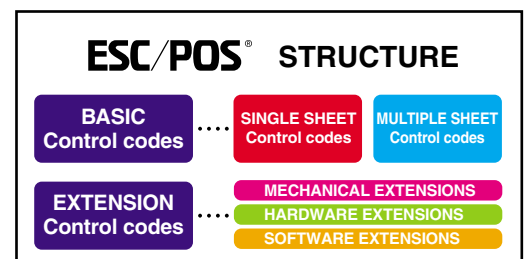
Epson Advanced Linux® Printer Driver

Epson is now developing a Linux® Driver as an alternative operating system to Windows®.




ESC/POS® Proprietary Command System

Epson took the initiative by introducing ESC/POS®, a proprietary POS printer command system including patented commands and enabling versatile POS system construction with high scalability. Compatible with all types of Epson POS printers and displays, this proprietary control system also offers the flexibility to easily make future upgrades. Its popularity is worldwide.



ESC/POS is a registered trademark of Seiko Epson Corporation in the U. S. and other countries. Epson is a member of the OPOS committee and JavaPOS initiative.

TM SERIES SPECIFICATIONS

Item	Inkjet Printer	
	TM-J9000 / J9100	TM-J7000 Series
Appearance		
Print method	Serial Inkjet dot matrix (180 dpi x 180 dpi)	
Font	12 x 24 / 9 x 17	
Print Font	Column capacity (columns) Receipt: 40 / 53, Validation: 62 / 82 Character size (mm) 1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H) Character set 95 Alphanumeric, 48 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE39, CODE93, CODE128, ITF, CODABAR (NW7)	Column capacity (columns) Receipt: 82.5 mm: 42 / 56, 76 mm: 40 / 53, 69.5 mm: 36 / 48, 57.5 mm: 30 / 40, Slip: 48 / 64, Endorsement: 46 / 61 (for J7000 / J7100), Slip: 80 / 106 (for J7500 / J7600) Character size (mm) 1.69 (W) x 3.38 (H) / 1.27 (W) x 2.40 (H) Character set 95 Alphanumeric, 37 International, 128 x 11 Graphic, Bar code: UPC-A, UPC-E, JAN13(EAN), JAN8(EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7), Two-dimensional code: PDF417
Characters Per Inch	15 cpi / 20 cpi	
Interfaces*	USB 2.0, Dealer option: RS-232, Bi-directional parallel, Ethernet	RS-232, Bi-directional parallel, RS-485, USB, 10 / 100 Base-T I/F
Data buffer	4 KB	
Print speed	Character: 14.3 lps (8 lines/inch), Graphic: 43 mm / sec. (Receipt: High speed mode, paper width 76 mm, full columns print)	Character: 14.3 lps, Graphic: 43 mm / sec. (Paper width 76 mm, Economy, High speed mode)
Paper	Dimensions (mm) Receipt: 76mm, Validation: 68 to 100 x 152 to 230 (H x W)	Dimensions (mm) Receipt: 57.5 ± 0.5, 69.5 ± 0.5, 76 ± 0.5, 82.5 ± 0.5 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Endorsement: 68 to 101.6 (W) x 150 to 223 (L) (for J7000 / J7100)
	Thickness (mm) Receipt: 0.06 to 0.09 Validation: 0.09 to 0.13	Thickness (mm) Receipt: 0.06 to 0.09, Slip: 0.09 to 0.2, Endorsement: 0.09 to 0.13 (for J7000 / J7100)
Copy capability	-	
Ink cartridge	Single color: SJIC8 (K) : Black (for J7000 / J7500 / J9000 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B): Blue, SJIC7 (G): Green (for J7100 / J7600 / J9100)	
Ink Life (characters)	Single color: Approx. 20,000,000 Two color: Approx. 15,000,000 (2 colors combined)	
Power	24 VDC ± 10%	
Power consumption	Operating : Approx. 1.0A Stand-by: Approx. 0.2A	Operating: Approx. 0.5 A, Stand-by: Approx. 70 mA (for J7000 / J7100) Stand-by: Approx. 80 mA (for J7500 / J7600)
D.K.D.function	-	2 drivers
Reliability	MTBF 180,000 hours	
	MCFB 2,960,000 transactions (This is an average failure interval based on failures relating to wearout and random failures up to the life of 1,000,000 transactions)	50,000,000 lines
Overall dimensions (mm)	466(389) (W) x 232 (D) x 180 (H) (with ASF) 310(236) (W) x 232 (D) x 180 (H) (without ASF)	195 (W) x 237 (D) x 188 (H) (for J7000 / J7100) 251 (W) x 237 (D) x 188 (H) (for J7500 / J7600)
Mass (Approx.)	5.2 kg (with ASF) / 4.9 kg (without ASF)	4.4 kg (for J7000 / J7100), 4.9g (for J7500 / J7600)
EMC standards	VCCI class A, FCC class A, CE marking, AS/NZS CISPR22 class A	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply (option)	PS-180	
Factory Options	Auto Sheet Feeder (ASF) with Double Feed Detection Function and Pocket	MICR device, Endorsement Printing (for J7000 / J7100)
Safety Standards	UL / CSA / EN	

*Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson representative lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second

TM SERIES SPECIFICATIONS

Inkjet Printer

TM-J2000 / J2100



TM-C100



Appearance

Serial inkjet dot matrix (180 dpi x 180 dpi)

Serial inkjet dot matrix (Max. 360 dpi x 360 dpi)

Print method

12 x 24 / 9 x 17

Not equipped with print font and print all data as the graphic data

Font

82.5 mm: 42 / 56, 76 mm: 40 / 53
70 mm: 36 / 48, 58 mm: 30 / 40

This printer does not have a bar code/two-dimensional symbol encoding function; however, a bar code/two-dimensional symbol that can be read with a bar code/two-dimensional symbol reader can be created by printing bar code/two-dimensional symbol data (graphic data) provided by users.

Column capacity (columns)

Character size (mm)

Print Font

1.69 (W) x 3.38 (H) / 1.27 (W) x 2.4 (H)

ASCII, WPC1252, PC437, PC850, PC852, PC858, PC860, PC863, PC865, PC866
Custom Graphic, Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), 2 of 5 (ITF), CODE39, CODE93, CODE128, CODABAR (NW7)

UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR(NW7)
Two-dimensional code: PDF417

Character set

15 cpi / 20 cpi

Characters Per Inch

RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F

USB

Interfaces*

4 KB or 512 bytes

—

Data buffer

Character: 14.7 lps (8 lines / inch)
Graphic: 43 mm / sec. (76 mm width paper, Full columns print)

Four-color: Max. 35 mm / sec. Single-color: Max. 51 mm / sec. (printing width: 60 mm, 180 dpi x 180 dpi, bi-directional printing)

Print speed

57.5 ± 0.5, 69.5 ± 0.5
76 ± 0.5, 82.5 ± 0.5

Roll Paper model / Roll paper: 45 to 105 (W) x dia. 90.0
ASF model / ASF: 55 to 135 (W) x 85 to 210 (L)
insertion by hand: 49 to 210 (W) x 120 to 297 (L)

Dimensions (mm)

Paper

0.06 to 0.11

Roll Paper model / Roll paper: 0.06 to 0.23
ASF model / ASF: 0.08 to 0.25, insertion by hand: 0.08 to 0.25

Thickness (mm)

Copy capability

—

Single color: SJIC5 (K): Black (for J2000 only)
Two color: SJIC3 (K): Black, SJIC4 (R): Red, SJIC4 (B): Blue, SJIC4 (G): Green (for J2100)

Four-color: SJIC9P (4-color combined, pigment ink)
Single-color: SJIC10P (K) (Black, pigment ink)

Ink cartridge

Single color: Approx. 24,000,000
Two color: Approx. 17,000,000 (2 colors combined)

Four-color: 660 pages (printable area 100 x 280 mm, with each of the colors covering 8.5% of the area, high speed mode printing)
Single-color: 2,500 pages (printable area 100 x 150 mm, with each of the colors covering 6.0% of the area, high speed mode printing)

Ink Life (characters)

24 VDC ± 10%

AC adapter (included)

Power

Operating: Approx. 1A
Stand-by: Approx. 65mA

Operating : Approx. 11W (mean)

Power consumption

2 drivers

—

D.K.D.function

180,000 hours

MTBF

Reliability

50,000,000 lines

30,000,000 passes

MCBF

195 (W) x 250 (D) (275 D with overhanging ledge) x 195 (H)

Roll Paper model / 210 (W) x 345 (D) x 152 (H)
ASF model / 210 (W) x 367 (D) x 245 (H)

Overall dimensions (mm)

4.7 kg

Roll Paper model / 2.0 kg
ASF model / 1.9 kg

Mass (Approx.)

VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B

EMC standards

PS-180

Exclusive AC adapter (included)

Power supply (option)




—

Factory Options

UL / CSA / EN


Safety Standards

TM SERIES SPECIFICATIONS


Item	Thermal Line Printer		
	TM-P60	TM-T88IV	TM-L60II
Appearance			
Print method	Thermal line printing		
Font	12 x 24 / 10 x 24 / 8 x 16	9 x 17 / 12 x 24	9 x 24 / 12 x 24
Column capacity (columns)	35 / 42 / 52 (58 mm), 36 / 43 / 54 (60 mm)	56 / 42	42 / 32 (Roll paper), 40 / 30 (Label)
Character size (mm)	1.50 (W) x 3.0 (H) / 1.25 (W) x 3.0 (H) / 1.0 (W) x 2.0 (H)	0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H)	0.99 (W) x 3.39 (H) / 1.41 (W) x 3.39 (H)
Character set	95 Alphanumeric, 48 International, 128 x 10 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR	95 Alphanumeric, 37 International, 128 x 11 Graphic Traditional / Simplified Chinese, Japanese, Korean Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR Two-dimensional code: PDF417, QRCode	95 Alphanumeric, 32 International, 128 x 7 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR
Characters Per Inch	16 cpi / 20 cpi / 25 cpi	20.0 cpi / 15.0 cpi	
Interfaces*	IEEE 802.11b or Bluetooth®, RS-232	RS-232, Bi-directional parallel Dealer option: RS-485, USB, 10 Base-T I/F	RS-232, Bi-directional parallel
Data buffer	128 bytes	4 KB or 45 bytes	
Print speed	Max. 70 mm / sec.	Max. 200 mm / sec.	50 mm / sec. (12 lps with 1 / 6" paper feed)
Dimensions (mm)	Roll paper: 57.5 ± 0.5 (W) x dia. 51.0 (max.) (59.5 ± 0.5 (W) by removing the spacer installed)	Roll paper: 79.5 ± 0.5 (W) x dia. 83.0	Roll paper: 60.0 ^{+0.1} (W) x dia. 83.0 Label: 60.0 ^{+0.1} (W) x dia. 83.0
Thickness (mm)	0.05 to 0.08	0.06 to 0.07	Label: 0.143 ± 0.015
Copy capability	-		
Autocutter	Available for autocutter model	Available	-
Label peeler	Available for peeler model	-	-
Power	PS-10	24 VDC ± 7%	
Power consumption		Approx. 1.8 A (mean)	Approx. 1.0 A (mean)
D.K.D.function	-	2 drivers	
MTBF	120,000 hours	360,000 hours	180,000 hours
MCBF	16,000,000 lines	52,000,000 lines	29,000,000 lines (thermal paper) 12,000,000 lines (thermal label)
Overall dimensions (mm)	103 (W) x 159 (D) x 65 (H)	145 (W) x 195 (D) x 148 (H)	123 (W) x 201 (D) x 124 (H)
Mass (Approx.)	0.67 kg (including battery)	1.8 kg	0.8 kg
EMC standards	VCCI class B, FCC class B, CE marking	FCC, VCCI class A CE marking, AS / NZS CISPR22 class B	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply (option)	PS-10	PS-180	
Factory Options	-	Wall-hanging bracket WH-10	-
Safety Standards	UL / CSA / EN		

*Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson representative lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second

TM SERIES SPECIFICATIONS



Thermal Line Printer		
TM-T90	TM-L90	
		Appearance
Thermal line printing		Print method
9 x 17 / 12 x 24		Font
56 / 42	64 / 48	Column capacity (columns)
1.3 (W) x 2.4 (H) / 1.7 (W) x 3.4 (H)	1.1 (W) x 2.1 (H) / 1.5 (W) x 3.0 (H)	Character size (mm)
95 Alphanumeric, 37 International, 128 x 11 Graphic Bar code: UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417, Maxicode (L90 only), QRCode (L90 only)		Character set
20.0 cpi / 15.0 cpi	22.6 cpi / 16.9 cpi	Characters Per Inch
RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F		Interfaces*
4 KB or 45 bytes		Data buffer
Max. 170 mm / sec.	Max. 150 mm / sec.	Print speed
Roll paper: Max. 79.5 ± 0.5 (W) x dia. 102.0	Roll paper: Max. 79.5 ± 0.5 (W) x dia. 90 .0	Dimensions (mm)
0.06 to 0.08	0.06 to 0.15	Thickness (mm)
-		Copy capability
Available	Available for autocutter model	Autocutter
-	Available for peeler model	Label peeler
24 VDC ± 7%		Power
Approx. 1.7 A (mean)		Power consumption
2 drivers		D.K.D.function
360,000 hours		MTBF
70,000,000 lines	70,000,000 lines (when printing receipt)	MCFB
140 (W) x 201 (D) x 148 (H)	140 (W) x 148 (D) x 203 (H)	Overall dimensions (mm)
1.8 kg	1.9 kg	Mass (Approx.)
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B		EMC standards
PS-180		Power supply (option)
-		Factory Options
UL / CSA / EN		Safety Standards

TM SERIES SPECIFICATIONS




		Hybrid Printer	
Item		TM-H6000III	TM-H5000II
Appearance			
Print method		Receipt: Thermal line printing, Slip: 9-pin serial impact dot matrix E / P: 8-pin shuttle impact dot matrix	Receipt: Thermal line printing Slip: 9-pin serial impact dot matrix
Print Font	Font	Receipt: 9 x 17 / 12 x 24 Slip: 5 x 9 / 7 x 9, E / P: 5 x 7	Receipt: 9 x 17 / 12 x 24 Slip: 7 x 9 / 9 x 9
	Column capacity (columns)	Receipt: 56 / 42, Slip: 45 / 60, E / P: 40	Receipt: 56 / 42, Slip: 88 / 66
	Character size (mm)	Receipt: 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H) Slip: 1.24 (W) x 3.1 (H) / 1.56 (W) x 3.1 (H), E / P: 1.1 (W) x 2.42 (H)	Receipt: 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H) Slip: 1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)
	Character set	Receipt / Slip: 95 Alphanumeric, 37 International, Receipt: 128 x 11 Graphic, Slip: 128 x 12 Graphic, Traditional / Simplified Chinese Bar code: UPC-A, UPC-E, JAN13 (EAN13), JAN8 (EAN8), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417 (Receipt only)	95 Alphanumeric, 32 International, 128 x 8 Graphic (Receipt) 128 x 10 Graphic (Slip) Traditional / Simplified Chinese
	Characters Per Inch	Slip: 13.3 cpi / 17.8 cpi	Receipt: 20.0 cpi / 15.0 cpi Slip: 16.7 cpi / 12.5 cpi
Interfaces*		RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	
Data buffer		4 KB or 45 bytes	
Print speed		Receipt: Max. 200 mm sec. Slip: Approx. 5.7 lps (at 40 columns, 17.8 cpi), E / P: Approx. 1.9 lps	Receipt: 120 mm / sec. (38 lps, 1 / 8" conversion) Slip: 311 / 233 cps
Paper	Dimensions (mm)	Receipt: Thermal roll paper 79.5 ± 0.5 (W) x dia. 83.0 Slip & E / P: 68 to 230 x 68 to 297 (W x L) NOTE: The minimum paper size is 68 x 152 mm	Receipt: Thermal roll paper 79.5 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L)
	Thickness (mm)	Receipt: 0.06 to 0.09 Slip: 0.09 to 0.31, E / P: 0.09 to 0.2	Receipt: 0.06 to 0.07 Slip: 0.09 to 0.2 (total thickness: ~ 0.36)
Copy capability		Slip: One original and three copies, E / P: One original single ply	Slip: One original and four copies
Inked ribbon		Slip: ERC-32 (Black), E / P: ERC-41 (Black)	ERC-31 (Black)
Ribbon Life (characters)		Slip: 4,000,000 E / P: 800,000	4,500,000
Power		24 VDC ± 10 %	
Power consumption		Receipt: Approx. 1.8 A Slip: Approx. 1.7 A	Receipt: Approx. 1.7 A Slip: Approx. 1.9 A
D.K.D.function		2 drivers	
Reliability	MTBF	Receipt: 360,000 hours, Slip: 180,000 hours	
	MCBF	Receipt: 72,000,000 lines Slip: 18,000,000 lines	Receipt: 52,000,000 lines Slip: 29,000,000 lines
Overall dimensions (mm)		186 (W) x 298 (D) x 185 (H)	252 (W) x 331 (D) x 201 (H) (excluding extended table)
Mass (Approx.)		5.3 kg	6.5 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply (option)		PS-180	
Factory Options		MICR device, Endorsement Printer (E / P)	MICR device
Safety Standards		UL / CSA / EN	

*Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson representative lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second

TM SERIES SPECIFICATIONS




Impact Dot Matrix Printer		
TM-U950	TM-U675	Appearance
		
9-pin, serial impact dot matrix		Print method
7 x 9 / 9 x 9	5 x 9 / 7 x 9	Font
Receipt (Journal): 40 / 30, Slip: 88 / 66	Receipt: 37 / 50, Slip / Validation: 45 / 60	Column capacity (columns)
1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)	1.56 (W) x 3.1 (H) / 1.24 (W) x 3.1 (H)	Character size (mm)
95 Alphanumeric 32 International 128 x 9 Graphic	95 Alphanumeric 37 International 128 x 12 Graphic Traditional / Simplified Chinese, Korean	Character set
16.7 cpi / 12.5 cpi	13.3 cpi / 17.8 cpi	Characters Per Inch
RS-232, Bi-directional parallel	RS-232, Bi-directional parallel RS-485, USB, 10 Base-T I/F	Interfaces*
2 KB or 32 bytes	4 KB or 45 bytes	Data buffer
311 / 233 cps	Approx. 5.14 lps (at 40 columns, 17.8 cpi)	Print speed
Receipt (Journal): Roll paper 69.5 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L)	Roll paper: 82.5 / 76.0 ± 0.5 (W) x dia. 83.0 Slip: 68 to 230 (W) x 68 to 297 (L) (min. 68 x 152) Validation: 68 to 230 (W) x 68 to 230 (L) (min. 68 x 152)	Dimensions (mm)
Receipt (Journal): 0.06 to 0.09, Slip: 0.09 to 0.36	Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.2 (total thickness: 0.09 to 0.31)	Thickness (mm)
One original and four copies (for slip)	One original and two copies	Copy capability
ERC-31 (Black)	ERC-32 (Black)	Inked ribbon
4,500,000	4,000,000	Ribbon Life (characters)
24 VDC ± 10 %		Power
Approx. 1.8 A (mean)		Power consumption
2 drivers		D.K.D.function
180,000 hours		MTBF
18,000,000 lines	37,000,000 lines	MCBF
251 (W) x 298 (D) x 194.5 (H)	186 (W) x 298 (D) x 195 (H)	Overall dimensions (mm)
5.6 kg	5.8 kg	Mass (Approx.)
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B		EMC standards
PS-180		Power supply (option)
MICR device	MICR device, Autocutter	Factory Options
UL / CSA / EN		Safety Standards

TM SERIES SPECIFICATIONS

Item	Impact Dot Matrix Printer			
	TM-U375	TM-U325	TM-U220 series	
Appearance				
Print method	9-pin, serial impact dot matrix			
Font	5 x 9 / 7 x 9	7 x 9 / 9 x 9		
Column capacity (columns)	33 / 40	40 / 42 or 33 / 35 (3 half dots / 2 half dots space)	40 / 42 or 33 / 35	
Character size (mm)	1.56 (W) x 3.1 (H) / 1.24 (W) x 3.1 (H)			
Print Font	1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)			
Character set	95 Alphanumeric 32 International 128 x 9 Graphic	95 Alphanumeric 32 International 128 x 8 Graphic	95 Alphanumeric, 48 International 128 x 12 Graphic Traditional / Simplified Chinese, Korean	
Characters Per Inch	13.3 cpi / 16 cpi	16 or 17.8 cpi / 13.3 or 14.5 cpi	17.8 cpi / 16 cpi or 14.5 cpi / 13.3 cpi	
Interfaces*	RS-232, Bi-directional parallel	RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	RS-232, Bi-directional parallel, USB, 10 Base-T I/F	
Data buffer	4 KB or 40 bytes	4 KB or 45 bytes	4 KB or 40 bytes	
Print speed	3.5 lps (at 40 columns, 16 cpi) 5.4 lps (at 20 columns, 16 cpi)	Approx. 3.5 lps (at 40 columns, 16 cpi) Approx. 6.4 lps (at 16 columns, 16 cpi)	4.7 lps (at 40 columns, 16 cpi) 6.0 lps (at 30 columns, 16 cpi)	
Paper	Dimensions (mm)	Roll paper: 76.0 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 160 (L) to 182 (W) x 257 (L) Validation: 135 (W) x 70 (L) to 182 (W) x 257 (L)	Receipt: 76.0 ± 0.5 (W) x dia. 83.0 Validation: 135 (W) x 70 (L) to 182 (W) x 182 (L) (Maximum print lines: 9 lines)	Roll paper: 57.5 ± 0.5, 69.5 ± 0.5, 76.0 ± 0.5 (W) x dia. 83.0
	Thickness (mm)	Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.12 (total thickness: 0.09 to 0.31)	Receipt: 0.06 to 0.085 (total thickness: 0.2 mm or less) Validation: 0.09 to 0.12 (total thickness: 0.09 to 0.31)	0.06 to 0.085
Copy capability	Roll paper: One original and one copy Slip: One original and two copies	One original and two copies	One original and one copy	
Inked ribbon	ERC-38 (Black)		ERC-38 (Black, Black / Red)	
Ribbon Life (characters)	3,000,000		Black: 3,000,000 B / R: 1,500,000 (Black), 750,000 (Red)	
Power	24 VDC ± 10%	AC adapter (included)		
Power consumption	Approx. 1.4 A	Approx. 43 W	Approx. 31 W	
D.K.D.function	2 drivers			
Reliability	MTBF	180,000 hours		
	MCBF	18,000,000 lines	49,000,000 lines	18,000,000 lines
Overall dimensions (mm)	186 (W) x 327 (D) x 145 (H)	164 (W) x 240 (D) x 136 (H)	Type A: 160 (W) x 286 (D) x 157.5 (H) Type B: 160 (W) x 248 (D) x 138.5 (H) Type D: 160 (W) x 248 (D) x 138.5 (H)	
Mass (Approx.)	4 kg	2.3 kg	Type A: 2.7kg Type B: 2.5kg, Type D: 2.3kg	
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	FCC class A	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	
Power supply (option)	PS - 180	Exclusive AC adapter (included)		
Factory Options	-		Near - end sensor	
Safety Standards	UL / CSA / EN			

*Interface: Dealer option: RS-485, USB, 10 Base T I/F, Please contact your Epson representative lps: lines per second cpi: characters per 25.4 mm (character per inch) cps: characters per second

TM SERIES SPECIFICATIONS

Impact Dot Matrix Printer TM-U230	Slip Printer		
	TM-U590	TM-U295	
			
			Appearance
9-pin, serial impact dot matrix		7-pin, shuttle impact dot matrix	Print method
7 x 9 / 9 x 9		5 x 7 / 7 x 7	Font
40 / 42 or 33 / 35	88 / 66	35 / 42	Column capacity (columns)
1.2 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)	1.3 (W) x 3.1 (H) / 1.6 (W) x 3.1 (H)	1.6 (W) x 2.9 (H) / 1.3 (W) x 2.9 (H)	Character size (mm)
95 Alphanumeric, 37 International 128 x 8 Graphic Traditional / Simplified Chinese, Korean	95 Alphanumeric 32 International 128 x 10 Graphic Traditional / Simplified Chinese	95 Alphanumeric 32 International 128 x 4 Graphic	Print Font Character set
16 or 17.8 cpi / 13.3 or 14.5 cpi	16.7 cpi / 12.5 cpi	13.5 cpi / 16.2 cpi	Characters Per Inch
RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F		RS-232, Bi-directional parallel	Interfaces*
1 KB / 16 KB	4 KB or 69 bytes	512 bytes or 35 bytes	Data buffer
3.5 lps (at 40 columns, 16 cpi) 6.4 lps (at 16 columns, 16 cpi)	311 / 233 cps	1.9 ~ 2.3 lps	Print speed
Roll paper: 76.0 ± 0.5 (W) x dia. 83.0	70 (W) x 70 (L) to 210 (W) x 297 (L)	80 (W) x 69 (L) to 182 (W) x 257 (L)	Dimensions (mm)
0.06 to 0.085	0.09 to 0.2 (total thickness: ~ 0.36)	0.09 to 0.25 (total thickness with copy: ~ 0.35)	Paper Thickness (mm)
One original	One original and four copies	One original and two copies	Copy capability
ERC-38 (Black, Black / Red)	ERC-31 (Black)	ERC-27 (Black)	Inked ribbon
Black: 3,000,000 B / R: 1,500,000 (Black), 750,000 (Red)	4,500,000	1,000,000	Ribbon Life (characters)
24 ~ 34 VDC	24 VDC ± 10%		Power
Approx. 43 W	Approx. 1.9 A (mean)	Approx. 600 mA (mean)	Power consumption
2 drivers			D.K.D.function
180,000 hours			MTBF
18,000,000 lines	29,000,000 lines	7,000,000 lines	Reliability MCBF
166 (W) x 168 (D) x 259.5 (H)	252 (W) x 266 (D) x 185 (H)	180 (W) x 190.5 (D) x 101.5 (H)	Overall dimensions (mm)
2.8 kg	5 kg	1.6 kg	Mass (Approx.)
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B			EMC standards
Power supply built-in model / Power supply separate model	PS - 180		Power supply (option)
-			Factory Options
UL / CSA / EN			Safety Standards

Clear, Easy-to-Read Display

DM-D Series

Epson DM Series displays provide customers with exceptionally clear, easy-to-read indications at a comfortable height and viewing angle.

They are also ready to provide graphic displays as well as text.

And compliance with safety standards worldwide means they can be used virtually anywhere.

Additional valuable features include an extensive font table, direct connection to any terminal, and ESC/POS® control commands for easy downloading of user-defined characters.

Two case colors (Epson Cool White and Epson Dark Gray) are available to suit your needs.

Customer Display

DM-D500



256 x 64 Dot Matrix Display

Provides clear, easy-to-read display of up to 8 lines of text. Up-down, left/right adjustability of indications assures optimum viewing angle.

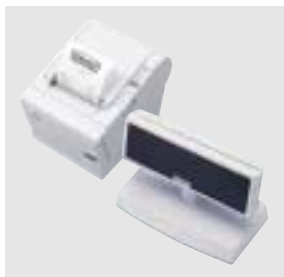


Graphic Display

The DM-D500 can also display pictures and illustrations, an ideal feature for advertising and when running a campaign. Vertical and horizontal scrolling of both text and graphics is also possible.

A Choice Of Stands

Five types of stands are available to meet different application needs.



OPTIONS



POWER SUPPLY

PS-180

INPUT: 100~240V AC
OUTPUT: 24 VDC, 2.0 A
Plug: 3P Power jack
Safety standards: UL, CSA, TÜV



POLE UNIT

DP-105

254 (H) x dia. 35mm

DM-D110 Series



Small & Easy-To-Read

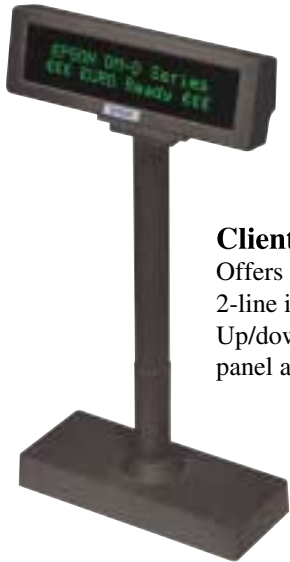
Panel and height adjustment possible with optional support.
Ideal for restaurants and specialty stores.



Direct Connection

It's easy to connect a DM Series display to an Epson TM or IR / SR Series POS unit. You can also connect directly to your current host terminal (serial port with a 12V power supply required) for expanded system flexibility.

DM-D210 Series



Client-Friendly

Offers large, easy-to-read, 20-column, 2-line indications.
Up/down, left/right adjustable display panel assures optimum viewing angle.



Compact Designs

Easy-to-read, 20-column, 2-line dot matrix displays for use with Epson TM Series printers.

SPECIFICATIONS

	DM-D500	DM-D110 Series	DM-D210 Series
Display method / Color	Vacuum fluorescent display / Green (505 mm)	Vacuum fluorescent display / Green (505 mm)	
Number of characters	Max. 336 (42 columns x 8 lines)	40 (20 columns x 2 lines)	
Brightness	300 cd / m ²	690 cd / m ²	700 cd / m ²
Character type	95 Alphanumeric characters / 37 International characters Graphic characters: 128 x 12 pages, Kanji characters	95 Alphanumeric characters / 37 International characters Graphic characters: 128 x 12 pages	
Character font	5 x 7 dot matrix, 8 x 16, 16 x 16 dot matrix	5 x 7 dot matrix, cursor 3.5 x 5.0 mm / 5.2 mm	5 x 7 dot matrix, comma, decimal point, annunciator 6.5 x 11.3 mm / 9.9 mm
Character size / pitch	—		
Reliability	Expected Life 30,000 hours	Expected Life 20,000 hours	
Power / current consumption	11.4 - 48 VDC / Max. 6W	11.4 - 48 VDC / Max. 5W, 5VDC / Max. 2.5W (USB Type)	11.4 - 48 VDC / Max. 10W
Overall dimensions	213 (W) x 51 (D) x 76 (H) mm	165 (W) x 50.5 (D) x 69 (H) mm	260 (W) x 60 (D) x 83 (H) mm
Viewing angle	Max. 48° (5 positions)	Max. 48° (5 positions)	Max. 36° (4 positions)
Horizontal rotation	Max. 90° (combination with DP-501 / DP-110)		
Case color	ECW (Epson Cool White), EDG (Epson Dark Gray)		
EMC standards	VCCI class A, FCC class A, CE marking, AS/NZS 3548 (CISPR22) class B		
Safety standards	UL / CSA / EN		
Power supply	PS-180 / Supplied by a TM printer or IR / SR		
Interface	RS-232	RS-232 / USB	RS-232

System Product Guide

2006-2007

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