

System Product Guide

2001-2002

POS TERMINAL **SR**

INTELLIGENT REGISTER **IR**

PRINTERS **TM SERIES**

CUSTOMER DISPLAYS **DM-D SERIES**



The Best Hardware Solutions For Your Open System



IR-310/SR-600



TM-H6000II



TM-J2000 / J2100

EPSON Roots

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



Co-existence Protecting The Environment

EPSON's efforts to protect the environment began ten years ago with the declaration that it would stop using CFCs. Other measures include the reduction of CO₂ emissions at factories and facilities, the reduction of waste material, and recycling. This focus on the environment has resulted in many EPSON factories acquiring ISO14001 certification.



Quality Satisfaction Guaranteed

Outstanding quality is something all EPSON products share. Thanks to this, EPSON was the first mini printer manufacturer to acquire accreditation for ISO9001, the strictest of the ISO9000 international quality standards. Approved by the Japan Quality Assurance Organization, ISO9001 compliance is just another example of the steps EPSON takes to assure total product satisfaction.



Innovation For The Customer

Since its establishment, EPSON has continued to strive to define new standards of performance and operation ease.

That's the EPSON Solution Initiative®. 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.



POS Terminal
SR Series

Intelligent Registers
IR Series

Printers
TM Series

Customer Displays
DM-D Series

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EPSON takes the initiative for your solution.

Setting the standards by providing revolutionary products for a wide range of applications -- in other words, the EPSON Solution Initiative®. The facts speak for themselves. In the area of hardware, EPSON has continued to provide countless solutions, such as the TM-J8000, the first 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® 95/NT® environments. For software development support in Java™ environments, there's JavaPOS™, also an industry standard. 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, SR / IR Series feature an easy-to-use touch panel.

Over 25 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 200 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.

SR-600 Series New POS Terminal

The Epson SR-600 Series offers a wide range of value-added solutions to businesses in the retail, and hospitality industries.

NEW

Quality and Performance at a Touch

The new Epson SR-600 Series provides establishments with the competitive advantage they need to stay ahead.

Compact and unobtrusive, this outstanding new product offers highly efficient, powerful solutions to any business that requires a low-cost, easy-to-operate POS terminal.

Blending stylishly with any retail environment, the terminal's low profile means that communications with customers are unhindered.

A wide range of expansion possibilities and peripherals ensures that the precise needs of users are met.

Long established leaders in the POS field, Epson products combine superior design with all the latest technological developments. Why settle for anything less?

Not only functional, the sleek lines and refined good looks of the SR-600 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.



Increased efficiency

A powerful 366-MHz Celeron™ CPU increases operating speed by processing data quickly, reducing customer waiting time.

Training time is kept to a minimum thanks to the large easy-to-operate LCD with touch panel.



12-inch Touch Panel



Boutiques and up-market retail establishments

Any boutique understands the importance of superior design. And the classy Epson SR-600 Series will not look out of place in even the most up-market of establishments.

Quiet, compact, and with a low profile, its sleek lines and stylish appearance mean this POS terminal will add to, rather than detract from, the ambience of any store.

Selectable configuration

A wide range of POS peripherals enables users to tailor a system to meet their needs.

Alongside the LCD display, users can select from a magnetic stripe reader (MSR), a customer display, a CD-ROM, CompactFlash™, and one of Epson's range of industry-leading POS printers.



MSR Unit



Customer Display

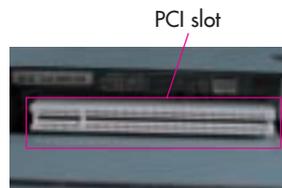


CD-ROM Drive

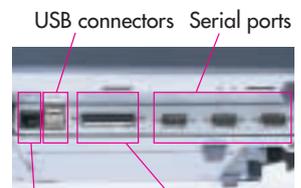
Expandability

A PCI slot, three serial ports, a parallel port and two USB enable the system to be expanded, while for customers with large systems there is 100/10Base-T Ethernet capability.

Data backup and installation/saving of applications software is simple.



PCI slot



USB connectors

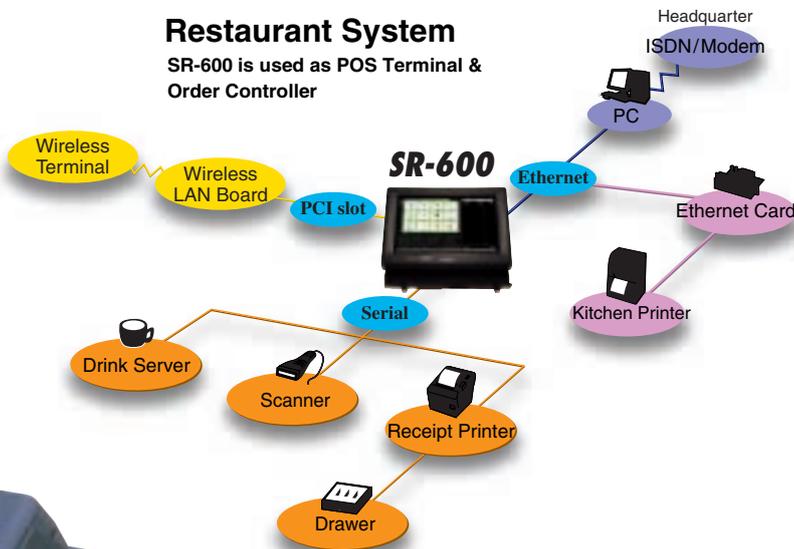
Serial ports

LAN connector

Parallel port

Restaurant System

SR-600 is used as POS Terminal & Order Controller



Restaurants, bars and fast food stores

The food industry requires POS terminals that are efficient, no-nonsense and durable - and that's just what the SR-600 Series is. Easily visible under subdued or bright lighting, the LCD touch panel is simple for part-time or inexperienced staff to operate, reducing training time and the possibility of errors. And accidental spills of water and sauce can be wiped off in an instant.



Flexible installation

Neat and compact, the SR-600 Series can be sited on the counter, discretely concealed from customers, or even on a high shelf. With a footprint of 306 by 303 mm and a height of 278 mm at its highest and 225 mm at its lowest angle, the terminal keeps the counter uncluttered and allows unimpeded communication with customers. Designed to withstand the rigors of even the toughest fast food restaurant or eatery, the heat-resistant SR-600 Series can withstand accidental splashes and spills of water, mayonnaise or ketchup. With a choice of stylish black or white, you can select the terminal that suits the decor of your shop. Use the SR-600 Series to create the retail environment that's right for your customers.

Reduced cost of ownership

Designed to be compatible with the latest PC architecture and industry standards (OPOS), the SR-600 Series is designed to keep your costs to a minimum. Service and maintenance fees are reduced thanks to the lift-up main unit case that makes access to the CPU, HDD and memory easy. The LCD unit is also simple to remove and attach. Most upgrades and simple repairs can be carried out by the user, reducing the need to call service personnel.



SPECIFICATIONS

CPU	.....	Celeron™ 366 MHz
Memory	.....	168-pin DIMM slots x 2 (Max. 256 MB)
I/O Ports	.....	Ethernet x 1 10 Base-T / 100 BaseTX, "Wake On LAN" support 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 port x 2 K/B & Mouse port x 1 PS / 2-type (6-pin mini-DIN) CRT x 1 (D-sub 15-pin female) (Factory option on the drawer board) Cash Drawer x2 (for two drives) (Factory option with CRT)
Storage	.....	FDD (1.44/3.5" External Option), 1 HDD (2.5" IDE interface / Ultra DMA / 33)- ¹ CD-ROM Drive (24 x speed slim drive / Alternative Option)- ¹ , CompactFlash™ Card Slot (Alternative Option)- ¹
Slot	.....	PCI x 1
MSR	.....	ISO Track 1, 2, 3 (Option)
Size	.....	Base unit 306 (W) x 303 (D) x 278 (H)mm <12.0" x 11.9" x 10.9"> (at highest angle) (including rubber feet, excluding LCD clamp)
Mass	.....	Approx. 8.6 kg (including CPU, HDD, DIMM, TFT LCD UNIT)
Safety Standards	.....	for North America EMI FCC class A Safety standard UL1950, CSA C22.2 No.950 for Europe CE marking / EMC EN55022 class A, EN50082-1, IEC801-2, IEC801-3, IEC801-4, EN61000-3-2, EN61000-3-3 Safety EN60950 for Japan EMC VCCI class A, Harmonic current control guideline of Japan, JEIDA52
Environment	.....	Temperature Operating 5° to 35° C Storage -10° to 50° C Humidity Operating 30 to 80 % RH (no condensation) Storage 30 to 85 % RH (no condensation)
OS	.....	MS-DOS® 6.2 / Windows® 95 / 98 / 2000 / NT Workstation 4.0
LCD With Touch Panel	.....	12.1-inch color DSTN (800 x 600 dots, with resistive-film touch panel) 12.1-inch color TFT (800 x 600 dots, with resistive-film touch panel)
Customer Display	.....	2 x 20 char. Type
Others	.....	Front key lock , Backup battery

*1 Bay Configuration

Internal Bay	Front Bay
HDD or CF	CF or CD-ROM

CF: CompactFlash™ Card Slot

IR-310 Series Intelligent Register

Fast, Versatile Printing & Easy Paper Loading

It's All Here!

The EPSON IR-310 series is the business partner you've been looking for. You get a powerful CPU for fast communication. A large touch panel for easy operation. And a seven-position keylock and a lock on the front and back covers to prevent unauthorized operation and access to valuable data. Exceptional flexibility is also yours with a wide range of options enabling customization to precisely meet your needs.

What's more, the EPSON IR is network ready and boasts a truly open architecture for the expandability that growing businesses demand. The other good news is a compact, elegant design that complements any modern interior decor. All this and more from a single, all-round unit - the EPSON IR.



Established by Japan's Ministry of International Trade and Industry (MITI) in 1957, the Good Design Award is the most coveted design accolade in Japan.

The EPSON IR received this prestigious award in the Office and Stores division for its contribution to the convenience and needs of users.



Outstanding Flexibility

Creating the exact EPSON IR configuration you need is easy. Choose between thermal and dot matrix printing. For data input, choose between a 12.1" (800 x 600 dot display) or 10.4" (640 x 480 dot display) touch panel, or a keyboard.

Fast, Flexible Printing & Easy Paper Loading

With the IR, you get a choice between one hybrid and two receipt printers.

The hybrid printer lets you enjoy slip and thermal receipt output. The one station thermal receipt printer offers convenient drop-in paper loading. And the one station impact dot matrix printer enables use of regular roll paper or pressure-sensitive roll paper for printing one original and one copy.

It also features a take-up device that lets you use two-ply paper to provide customers with journal printouts.

Whichever model you choose, output from these compact units is extremely fast, a vital feature for high volume tasks.

All three printers come with an Auto Status Back function and autocutter .



One Station Impact Dot Matrix Printer



Hybrid Printer (Slip & Thermal Receipt)

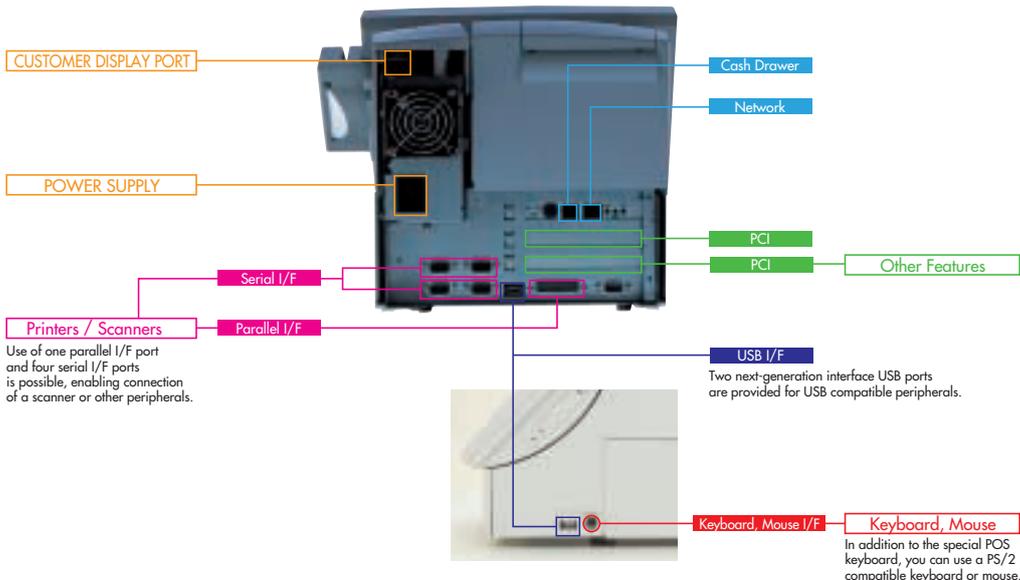


One Station Thermal Printer





Multiple Interfaces For Exceptional Expandability



Extensive Range Of Options

A wide range of options are available for customizing your EPSON IR system. These include a 24X speed CD-ROM drive, an MSR unit, a 28-key keyboard unit, and a selection of customer displays. You can also add a printer tray to enable the use of other EPSON TM Series printers.



CD-ROM Drive



MSR Unit



28-Key Keyboard Unit with MSR Unit (MSR connectable)



Printer Tray for EPSON TM Series Printer

SPECIFICATIONS

CPU	Celeron™ 366 / 433 MHz
Memory	2 DIMM slots (256 MB max.)
Storage	FDD (1.44/3.5" standard), 1 HDD (3.5" 25.4 mm <1.0"> max. high) or 2 HDD (2.5" 9.5 mm <0.4"> max. high) can be installed CompactFlash™ card slot can be installed
Slots	PCI x 2
I/O	SERIAL x 6 (Internal x 2, External x 4) w/5V & 12V power for external by jumper switches (Internal two for Printer / Customer display and Touch panel) K/B & Mouse port w/PS/2 type (1 connector located on right side) 24V Drawer port x 1 Parallel x 1 (does not support OCIA) USB port x 2 (1 ch located on rear panel, 1 ch located on right side) Ethernet x 1 (10 BASE-T / 100 BASE-TX), wake on LAN support
Video	CHIPS 69000, SDRAM 2 MB
Others	Keylock 7 positions Power connector For External TM printers (TM-H6000, T88, U200, U300, U325 series) Power switch Soft switch on front for power off by software, main switch on right side Power supply Built-in, 100-240V w/auto switch, 280VA
BIOS	APM / Plug & Play / DMI
OS	Option (MS-DOS®, Windows® 95, Windows® 98, Windows® 2000, Windows NT® Workstation 4.0)
Size	Base unit 252 (W) x 454.5 (D) x 287 (H) mm <9.9" x 17.9" x 11.3"> (including cable cover)
Printer Units	Thermal Printer 56 column thermal (80 mm paper roll) Dot Matrix Printer 42 column dot matrix Hybrid Printer Slip printer 42 column dot matrix Receipt printer 56 column thermal TM Printer Tray Tray for one station TM printers or for TM-H6000
LCD With Touch Panel	12.1" TFT color (800 x 600), Resistive touch panel (314 (W) x 254 (D) mm) 10.4" DSTN color (640 x 480), Resistive touch panel (277 (W) x 208 (D) mm) 10.4" DSTN color (800 x 600), Resistive touch panel (277 (W) x 208 (D) mm)
LCD Without Touch Panel	10.4" DSTN color (640 x 480) (277 (W) x 208 (D) mm)
Options	Customer Display VFD (20 x 2-line display or 256 x 64 dots graphic display), w/Standard Pole (125 mm <4.9">), w/Extended Pole (244 mm <9.6">), OPTION) MSR Unit ISO 1, 2 & 3 truck, Fixed to LCD or Keyboard unit, Communication via KB interface NVRAM Unit 32 KB SRAM with battery backup can be installed Sound Exclusive Sound board can be installed CD-ROM Drive 24X speed slim drive Keyboard POS 84-K/B, Programmable (277 (W) x 208 (D) mm <10.9" x 8.19">), 28-Key Keyboard Unit

TM Series

Fast Solutions For Multiple Printing Needs

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

(TM-T88II, TM-T90/L90, U200 Series, U295)



Asian multi-language capability

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

(TM-H6000II, H5000II, T88II, T90, L90, TM-U230, U200A, TM-J2000/J2100, U590)

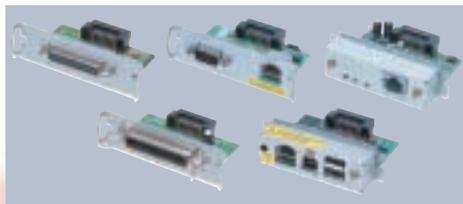


	Automatic Status Back Function
	Auto Load
	Autocutter
	2 Colors
	MICR
	Maintenance Memory
	Display Port
	Multi Language
	Dark Gray

Expandability

Universal interface

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



Multiple interfaces

DM connection

Interface on the printer side provided for connection of a DM 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 Technology
Expandability

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.

(TM-H6000II, H5000II, U675, TM-J2000/J2100, T90, L90, U230)



Cable management

Eliminates untidy cables while assuring firm connection.



Switch cover

Prevents accidental switch operation.



Security plug

Prevents accidental unplugging. (PS-170)



Locked Unlocked

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.

Ethernet Interface



USB 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 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-U200 Series TM-U325 TM-U675 TM-U950	TM-U230 TM-U590 TM-U295	TM-T90 TM-L90 TM-L60II TM-T88II	TM-H5000II TM-H6000II
				TM-J8000 TM-J2000/J2100

New Lineup

Packed with a range of innovative features, the Epson TM series lineup features five exciting new models. Designed especially with the retail, hospitality and service industries mind, you're sure to find a product that suits your precise needs. The single-color TM-J2000 and two-color TM-J2100 inkjet, and the two-color

Inkjet TM-J2000/J2100



Compact, Inkjet POS Printer

High Performance

Although compact with a small, space-saving footprint, the EPSON TM-J2000/J2100 are ready to deliver outstanding performance. You get high-speed, high-quality output in one or two colors plus extremely quiet operation. For extra flexibility you can change paper width. And an autocutter is standard with partial or full cut selectable. Another handy feature of the TM-J2000/J2100 is that everything from roll paper loading, ink cartridge changing and receipt output is performed at the front of the unit, enabling it to be embedded in a counter.

2-Color Graphic Printing

With the TM-J2100, you can print eye-catching two-color logos and raised company emblems. These are ideal features when advertising or promoting store events such as sales. Two-color printing also helps you avoid forged receipts.

Ink Cartridge (Black/Red, Black/Blue, Black/Green)

Low Cost of Ownership

The TM-J2000/J2100 are packed with features designed to reduce the cost of ownership. Not only are these models durable with a printing life of 50-million lines, but the ink cartridges are built to keep on going and going.

An ink near-end detector prevents wasteful printing of blank receipts, and Epson's unique SEAJet® technology keeps energy consumption to an absolute minimum by relying on electrostatic rather than the usual thermal energy for power.

Print method	TM-J2000: 64 nozzle serial inkjet (180 dpi x 180 dpi) TM-J2100: 128 nozzle serial inkjet (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)	1.41 (W) x 3.39 (H) / 0.99 (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 (Font A) / 20 cpi (Font B)
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	4 KB or 512 byte
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	SJIC5 (Black for TM-J2000) SJIC3 (Black for TM-J2100) SJIC4 (Red, Blue, Green for TM-J2100)
Ink life	24 x 10 ⁶ characters (Mono), 17 x 10 ⁶ characters (2 colors)
Power	24 VDC ± 10%
Power consumption	Approx. 1 A (Operating)
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 50 x 10 ⁶ 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, Canada EMI, AS / NZS 3548
Power supply	PS-170 (option)
Safety standards	UL / CSA / TÜV (EN60950)

*cpi: characters per inch lps: lines per second



TM-H6000II hybrid POS printers offer outstanding speed, low cost of ownership and high printing quality. And the TM-L90 and TM-T90 thermal printers for labels and receipts/tickets respectively are the first in their field to be designed for counter-top use.

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

TM-H6000II



High-speed, high performance hybrid printer



2-Color Printing **

The ability to print in two colors puts the Epson TM-H6000II in a class of its own*.

Previously unknown in such a printer, this exciting new feature enables users to print their logo and to highlight the parts of the label or ticket they want to emphasize.

Printing in two colors not only opens up a new world of design possibilities, but is sure to impress customers too.

*All data in this page is correct as of January 1, 2001.

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

Check Printing Convenience

Enables quick printing and endorsement of checks without the need to manually reverse them.

Designed For Speed

Offers bi-directional minimum distance printing for high-speed output with batch processing capability. High-speed graphics printing also possible.

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, 128 x 12 Graphic Bar code: UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), CODE 39, CODE 93, CODE 128, ITF, CODABAR 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. 170 mm / sec. Slip: Approx. 5.14 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 (Purple, Black), E / P: ERC-41 (Purple, Black)
Ribbon life	Slip: Purple: 6 x 10 ⁶ characters, Black: 4 x 10 ⁶ characters E / P: Purple: 1 x 10 ⁶ characters, Black: 8 x 10 ⁵ 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: 36 x 10 ⁴ hours, Slip: 18 x 10 ⁴ hours MCBF: Receipt: 52 x 10 ⁶ lines, Slip: 18 x 10 ⁶ lines
Overall dimensions (mm)	186 (W) x 298 (D) x 185 (H)
Mass (Approx.)	5.8 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-170, PS-180 (option)
Factory options	MICR device, Endorsement printer (E / P)
Safety standards	UL / CSA / TÜV (EN60950)





High speed

There's no need to keep customers waiting with the Epson TM-T90.

Printing at a maximum speed of 170 mm/sec, there's no doubt that it's the fastest printer in its class* – even when printing barcodes and logos.

* 2-color printing speed is 57 mm/sec.

Large paper rolls

The Epson TM-T90 provides you with all-round paper-handling versatility.

The ability to handle paper rolls of up to 100 mm in diameter reduces paper-loading downtime and saves on the cost of purchasing paper.

Selectable paper width

You don't have to buy another printer to print on different size paper.

With a simple spacer adjustment, users can adjust the TM-T90 to suit a variety of receipt sizes.

Available paper widths range from 58, 60 mm (with spacer), or 80 mm.

2-Color Printing **

The ability to print in two colors puts the Epson TM-T90 in a class of its own*.

Previously unknown in such a printer, this exciting new feature enables users to print their logo and to highlight the parts of the label or ticket they want to emphasize.

Printing in two colors not only opens up a new world of design possibilities, but is sure to impress customers too.

*All data in this page is correct as of January 1, 2001.

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



EPSON DARK GRAY

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, 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 byte
Print speed	Max. 170 mm / sec.
Paper	Dimensions (mm) Rollpaper: Max. 79.5 ± 0.5 x dia. 100.0
	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: 36 x 10 ⁴ hours
	MCBF: 70 x 10 ⁶ 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-170, PS-180 (option)
Safety standards	UL / CSA / TÜV (EN60950)

Easy to site

Available in two attractive colors, the TM-T90 and L90 is designed to blend into even the most refined of establishments. Install the printer vertically or horizontally, or use the optional wall-hanging bracket to move it off the counter altogether.

Cable management

The TM-T90 and L90 avoids the problem of unsightly cables by having all its interfaces located beneath the main unit. With convenient holes providing flexibility for installation, there's no need for cables to detract from the atmosphere of your establishment.





EPSON DARK GRAY



Easy operation and maintenance

The TM-L90 is so easy to use that it requires almost no training for even the most inexperienced of staff. With no complicated paper feeding, the drop-in loading method allows operators to open the door and load new paper in a few short seconds.

Reliable

There's nothing more annoying for you – and your customers – than paper jams.

Not only are paper jams unlikely with the TM-L90, but they are easy to clear when they do occur. A long lifespan allows your TM-L90 to print up to one million labels or twenty million lines.

(MCBF: Seventy million lines when printing receipt)

Flexibility

The Epson TM-L90 can be operated using all standard commands and drivers for the retail environment. For Asian markets, a variety of languages are supported as a factory option.

Label Printing

Whether they contain barcodes, addresses, or other vital information, printed labels are fast becoming a necessity in a variety of consumer-orientated businesses.

For retailers of all kinds, ticketing agencies, post offices or delivery companies, a fast, accurate and versatile label printer has become an absolute must. And that is where Epson comes in.

The fastest label printer in its class* – and the first of its kind that can print in two colors* – the TM-L90 is revolutionizing the way that labels are printed.

*All data in this page is correct as of January 1, 2001.

Compact

A compact design and small footprint makes the TM-T90 and L90 ideal for counters with limited space. Its low profile means that face-to-face contact with your customers is unimpeded, and there are no sharp corners or jutting out parts to get in the way.

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, 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 byte
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: 36 x 10 ⁴ hours MCBF: 70 x 10 ⁶ 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-170, PS-180 (option)
Safety standards	..... UL / CSA / TÜV (EN60950)



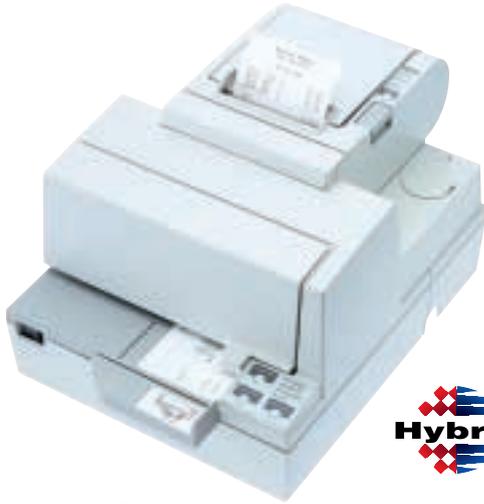


HYBRID PRINTERS

With a hybrid printer, you can enjoy the benefits of both thermal and impact printing. Choose thermal printing when you need fast, quiet output of high-resolution, graphics-rich receipts. If the demand is for optimum performance, copy capability and reliability for fast, clear printing on pre-printed slip forms and checks, impact printing is ideal.

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

TM-H5000II



Thermal & Dot Output

Application versatility with thermal and dot matrix output. Plus fast 38 lps (1/8") receipt printing and ladder and fence bar code printing.

Wide Slip Printing

Able to print slips up to a width of 88 columns, with one original and four copies. Packed with other convenient features.

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 7 Graphic (Receipt) 128 x 10 Graphic (Slip) Traditional / Simple 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 (Purple, Black)
Ribbon life	..... Purple: 7 x 10 ⁶ characters, Black: 4.5 x 10 ⁶ 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: 36 x 10 ⁴ hours, Slip: 18 x 10 ⁴ hours MCBF: Receipt: 52 x 10 ⁶ lines, Slip: 29 x 10 ⁶ 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-170 (option)
Factory options	..... MICR device
Safety standards	..... UL / CSA / TÜV (EN60950)



Thermal Line

TM-T88II



EPSON
DARK GRAY

Fast, Versatile Printing

Top speed of 28.4 lps in this model completes large-volume tasks fast. Smooth and scalable font printing capability with a choice of font sizes, and fence and ladder bar codes.

Ergonomic Design

Handy features include easy roll paper loading and automatic receipt cutting. Also comes with the built-in drawer kickout interface common to all TM Series models.

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)	..... 0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H)
Character set	..... 95 Alphanumeric, 37 International, 128 x 8 Graphic Traditional / Simple Chinese, Thai, Japanese Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR
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	..... 120 mm / sec. (38 lps, 1 / 8" conversion)
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. 1.7 A (mean)
D.K.D.function	..... 2 drivers
Reliability	..... MTBF: 36 x 10 ⁴ hours MCBF: 52 x 10 ⁶ lines
Overall dimensions (mm)	..... 145 (W) x 195 (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-170, PS-180 (option)
Factory options	..... Wall-hanging bracket WH-10
Safety standards	..... UL / CSA / TÜV (EN60950)





THERMAL LINE PRINTERS

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 printing is possible on a wide range of media, including polypropylene and clear labels.

9-pin, serial dot

TM-U950/U925



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 (TM-U950) Receipt: 40 / 30, Slip: 88 / 66 (TM-U925)
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 8 Graphic
Characters per inch	16.7 cpi / 12.5 cpi
Interfaces	RS-232, Bi-directional parallel (TM-U950) RS-232 (TM-U925)
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) (TM-U950) Receipt: Roll paper: 69.5 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 70 (L) to 210 (W) x 297 (L) (TM-U925) Thickness (mm) Receipt (Journal): 0.06 to 0.09, Slip: 0.09 to 0.36 (TM-U950) Receipt: 0.06 to 0.09, Slip: 0.09 to 0.36 (TM-U925)
Copy capability	One original and four copies (for slip)
Inked ribbon	ERC-31 (Purple, Black)
Ribbon life	Purple: 7 x 10 ⁶ characters, Black: 4.5 x 10 ⁶ characters
Power	24 VDC ± 10%
Power consumption	Approx. 1.8 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 18 x 10 ⁶ lines
Overall dimensions (mm)	251 (W) x 298 (D) x 194.5 (H) (TM-U950), 251 (W) x 298 (D) x 193.7 (H) (TM-U925)
Mass (Approx.)	5.6 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-170 (option)
Factory options	MICR device
Safety standards	UL / CSA / TÜV (EN60950)



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
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 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 150 (L) to 148 (W) x 297 (L) Validation: 148 (W) x 70 (L) to 150 (W) x 210 (L) 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 (Purple, Black)
Ribbon life	Purple: 6 x 10 ⁶ characters, Black: 4 x 10 ⁶ characters
Power	24 VDC ± 10%
Power consumption	Approx. 1.8 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 37 x 10 ⁶ lines
Overall dimensions (mm)	186 (W) x 298 (D) x 195 (H)
Mass (Approx.)	5.8 kg
EMI standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-170 (option)
Factory options	MICR device, Autocutter
Safety standards	UL / CSA / TÜV (EN60950)





Impact Dot Matrix Printers

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 only needs to be changed occasionally. With EPSON dot matrix printers, you also get high quality results thanks to the 9-pin heads.

9-pin, serial dot

TM-U375



Standard 1.5 Station Printer

Basic 1.5 station model with exceptionally low height. Features a movable platen and easy-to-use design for simple roll paper loading, slip insertion and maintenance.

High-Performance 1.5 Station Printer

Print method	9-pin, serial impact dot matrix
Print font	Font 5 x 9 / 7 x 9 Column capacity (columns) ... 33 / 40 Character size (mm) 1.6 (W) x 3.1 (H) / 1.2 (W) x 3.1 (H) Character set 95 Alphanumeric, 32 International, 128 x 9 Graphic Characters per inch 13.3 cpi / 16 cpi
Interfaces	RS-232, Bi-directional parallel
Data buffer	4 KB or 40 bytes
Print speed	3.5 lps (at 40 columns, 16 cpi), 5.4 lps (at 20 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) Thickness (mm) Roll paper 0.06 to 0.085 / sheet Slip: 0.09 to 0.12 (Total thickness 0.09 to 0.31)
Copy capability	Roll Paper: One original and one copy Slip: One original and two copies
Inked ribbon	ERC-38 (Purple, Black)
Ribbon life	Purple: 4 x 10 ⁶ characters, Black: 3 x 10 ⁶ characters
Power	24 VDC ± 10%
Power consumption	Approx. 1.4 A
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 18 x 10 ⁶ lines
Overall dimensions (mm)	186 (W) x 327 (D) x 145 (H)
Mass (Approx.)	4 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	PS-170 (option)
Safety standards	UL / CSA / TÜV (EN60950)



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 (Purple, Black)
Ribbon life	Purple: 4 x 10 ⁶ characters, Black: 3 x 10 ⁶ characters
Power	AC adapter (included)
Power consumption	Approx. 43 W
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 49 x 10 ⁶ 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



9-pin, serial dot

TM-U200 Series



EPSON
DARK GRAY



Fast, Lightweight & Rugged

Tough construction assures outstanding reliability. Fast 3.5 lps red/black printing for 40 columns and 6.4 lps for 16 columns.

Feature-Packed

Complete with ESC/POS®-based command system for smooth operation. Also features Automatic Status Back for quick confirmation of printer operation status, and semi-automatic paper loading.

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	

High Cost-Performance Printers

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, 32 International, 128 x 8 Graphic Traditional / Simple Chinese, Thai, Japanese (A type) Characters per inch 17.8 / 16 cpi or 14.5 / 13.3 cpi
Interfaces	RS-232, Bi-directional parallel, Dealer option: RS-485, USB, 10 Base-T I/F
Data buffer	1 KB or 40 bytes
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 0.06 to 0.085
Copy capability	A type: One original and two copies B type: One original and one copy D type: One original and two copies
Inked ribbon	ERC-38 (Purple, Black, Black / Red)
Ribbon life	Purple: 4 x 10 ⁶ characters, Black: 3 x 10 ⁶ characters B / R: 15 x 10 ⁵ characters (Black) / 75 x 10 ⁴ characters (Red)
Power	AC adapter (included)
Power consumption	Approx. 43 W
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 18 x 10 ⁶ lines
Overall dimensions (mm)	A type: 160 (W) x 295 (D) x 160 (H) B type: 160 (W) x 248 (D) x 150 (H) D type: 160 (W) x 248 (D) x 133 (H)
Mass (Approx.)	A type: 2.5 kg, B type: 2.5 kg, D type: 2.2 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
Safety standards	UL / CSA / TÜV (EN60950)



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.

A New 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 Traditional / Simple Chinese, 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	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 (Purple, Black, Black / Red)
Ribbon life	Purple: 4 x 10 ⁶ characters, Black: 3 x 10 ⁶ characters B / R: 15 x 10 ⁵ characters (Black), 75 x 10 ⁴ characters (Red)
Power	24 VDC ± 5%
Power consumption	Approx. 43 W
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 18 x 10 ⁶ lines
Overall dimensions (mm)	166 (W) x 168 (D) x 259.5 (H)
Mass (Approx.)	2.7 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
Factory options	WH-10
Safety standards	UL / CSA / TÜV (EN60950)





Inkjet Printers

Inkjet printers feature ultra-fine nozzles to spray ink. The advantages of these printers include silent operation, fast throughput, and high-resolution results in multiple colors. Inkjet printers also enable plain paper printing.

InkJet

TM-J8000



Fast Output, Plain Paper Convenience

Featuring SEAJet[®] technology, printing speed is about 15 lps on roll paper and 3 pages per minute on A4 size slips.

Exceptionally Quiet

Quiet operation makes the TM-J8000 ideal for use in hotels, bookstores, coffee shops and other environments where silence is required.

Inkjet POS Printer

Print method	Serial Inkjet dot matrix (128 nozzle / 360 dpi)
Print font	Font 22 x 48 / 18 x 36
Column capacity (columns)	Receipt: 42 / 51, Slip: 130 / 158
Character size (mm)	1.48 (W) x 3.32 (H) / 1.20 (W) x 2.47 (H)
Character set	95 Alphanumeric, 32 International, 128 x 9 Graphic
	Bar code: UPC-A, UPC-E, JAN13 (EAN), 2 of 5 (ITF), CODE 39, CODE 93, CODE 128
Characters per inch	16.4 cpi / 20 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: 10.1 lps (at 42 columns) / 14.7 lps (at 51 columns) Slip: 4.9 lps (at 130 columns) / 7.3 lps (at 158 columns)
Paper	Dimensions (mm) Receipt: 76 ± 0.5 x dia. 83.0 Slip: (W) 68 to 215.9 / (L) 68 to 297.0
	Thickness (mm) Receipt: 0.06 to 0.09, Slip: 0.09 to 0.15
Ink cartridge	SJIC1 (Black)
Ink life	12 x 10 ⁶
Power	AC 85 V - 264.5 V (only for single phase)
Power consumption	25 W (operating)
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 37 x 10 ⁶ lines
Overall dimensions (mm)	325 (W) x 300 (D) x 200 (H)
Mass (Approx.)	9.0 kg
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B
Power supply	Universal power supply is built in
Safety standards	UL / CSA / TÜV (EN60950)



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
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 (Purple, Black)
Ribbon life	Purple: 7 x 10 ⁶ characters, Black: 4.5 x 10 ⁶ characters
Power	24 VDC ± 10%
Power consumption	Approx. 1.9 A (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 29 x 10 ⁶ 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-170 (option)
Safety standards	UL / CSA / TÜV (EN60950)



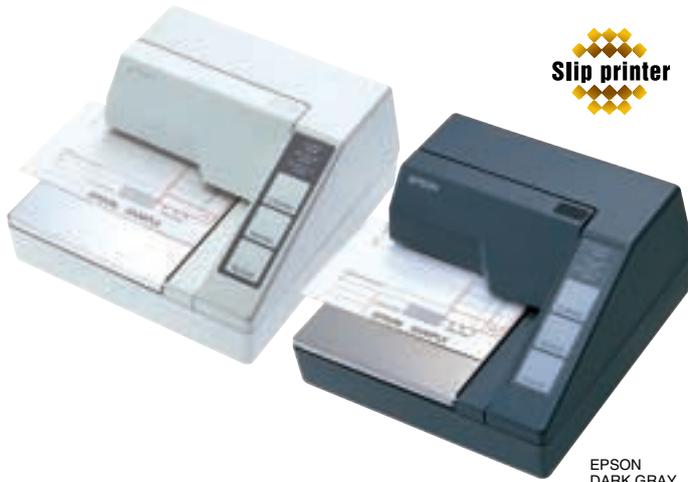


Slip Printers

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.

7-pin, shuttle dot

TM-U295



EPSON
DARK GRAY

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 3 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	2.1 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 (Purple)
Ribbon life	15 x 10 ⁵ characters
Power	24 VDC ± 10%
Power consumption	Approx. 600 mA (mean)
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 7 x 10 ⁶ 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-170 (option)
Safety standards	UL / CSA / TÜV (EN60950)



Expandability

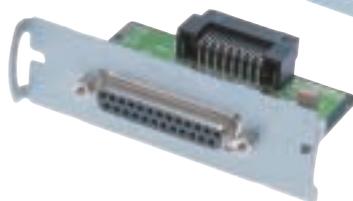
UB-E01

UB-U01II

UB-P02II

UB-S09

UB-S01/02



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-U01II	UB-U02II	UB-E01
Data transfer format	RS-232	RS-485	RS-232	IEEE1284	USB 1.1	USB 1.1	10BASE-T
Remarks			With DM-D connector		With hub	No hub	

• OPTIONS •

POWER SUPPLY



PS-170

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



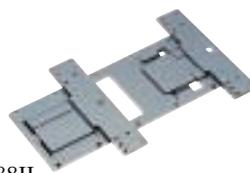
PS-180

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

ACCESSORIES



DC-21
DC cable set
(for TM series)



WH-10
Wall-hanging bracket
for TM-T90/L90, TM-T88II,
TM-U230



WT-5000
Extension table
for TM-H5000II

RIBBON CASSETTES



ERC-38
for TM-U200,
TM-U375, TM-U230
(Purple, Black, Black/Red)



ERC-31
for TM-U950/U925,
TM-U590, TM-H5000II,
(Purple, Black)



ERC-27
for TM-U295
(Purple, Black)



ERC-32
for TM-H6000II, TM-U675
(Purple, Black)



ERC-41
for TM-H6000II
(Endorsement Printer)
(Purple, Black)

*An EPSON ribbon is recommended.

INK CARTRIDGES



SJIC1
for TM-J8000
(Black)



SJIC3
for TM-J2100
(Black)



SJIC4
for TM-J2100
(Red, Blue,
Green)
Used with SJIC3



SJIC5
for TM-J2000
(Black)

CUSTOMER DISPLAY



DM-D Series

EPSON Setting POS Standards

Drivers for Wide-ranging Applications

Unified POS Related Drivers

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



EPSON OPOS ADK

EPSON OPOS ADK, provides the versatility and convenience of applications development in Windows® 95, Windows NT®, Windows® 98 and Windows® 2000 environments. Besides dramatically reducing the number of application steps, EPSON OPOS ADK makes system upgrading pretty easy.

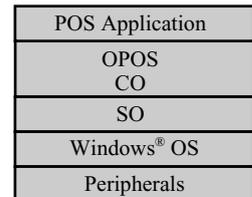
EPSON JavaPOS™ ADK

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.

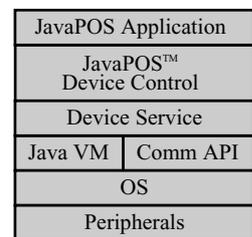
Standard Specifications

- ~ OPOS APG 1.5
- ~ JavaPOS™ PG 1.5

OPOS Architecture



JavaPOS™ Architecture



Migration To Non-POS Markets

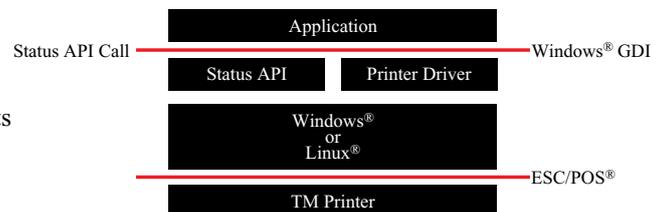
EPSON Advanced Drivers

EPSON currently provide a universal mini driver with simple printing functions for non-POS markets. However, to meet the needs of non-retail markets, EPSON now offers the Advanced Printer Driver, an upgraded version of the Universal mini driver featuring a Status Monitor function.

Advanced Printer Driver for Windows®

Advanced Printer Driver: Universal mini 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.)

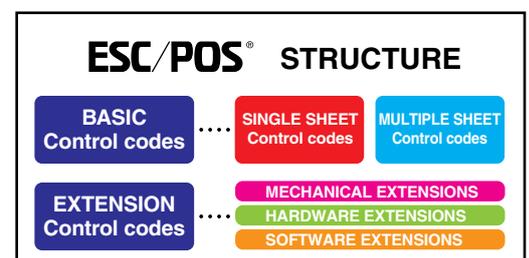


Advanced Linux® Drivers

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. EPSON is a member of the OPOS committee and JavaPOS initiative.

TM SERIES SPECIFICATIONS

Item	Hybrid Printer		Thermal Line Printer	
	NEW TM-H6000II	TM-H5000II	NEW TM-T90	NEW TM-L90
Appearance				
Print method	Receipt: Thermal line printing Slip: 9-pin serial impact dot matrix E / P: 8-pin shuttle impact dot matrix		Thermal line printing	
Font	Receipt: 9 x 17 / 12 x 24 Slip: 5 x 9 / 7 x 9 E / P: 5 x 7		9 x 17 / 12 x 24	
Column capacity (columns)	Receipt: 56 / 42 Slip: 45 / 60 E / P: 40		56 / 42	
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)		1.3 (W) x 2.4 (H) / 1.7 (W) x 3.4 (H)	
Character set	Receipt / Slip: 95 Alphanumeric, 37 International, 128 x 12 Graphic Bar code: UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR, PDF417 (Receipt only)		95 Alphanumeric, 37 International, 128 x 11 Graphic Bar code: UPC-A, UPC-E, JAN13 (EAN), JAN8 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR, PDF417, Maxicode (L90 only), QRCode (L90 only)	
Characters Per Inch	Slip: 13.3 cpi / 17.8 cpi		20.0 cpi / 15.0 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. 170 mm / sec. Slip: Approx. 5.14 lps (at 40 columns, 17.8 cpi) E / P: Approx. 1.9 lps		Max. 170 mm / sec.	
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		Roll paper: Max. 79.5 ± 0.5 (W) x dia. 100.0	
Thickness (mm)	Receipt: 0.06 to 0.09 Slip: 0.09 to 0.31 E / P: 0.09 to 0.2		0.06 ~ 0.08	
Copy capability	Slip: One original and three copies E / P: One original single ply		-	
Inked ribbon	Slip: ERC-32 (Purple, Black) E / P: ERC-41 (Purple, Black)		-	
Ribbon Life (characters)	Slip: Purple: 6 x 10 ⁶ , Black: 4 x 10 ⁶ E / P: Purple: 1 x 10 ⁶ , Black: 8 x 10 ⁵		-	
Power	24 VDC ± 10 %		24 VDC ± 7%	
Power consumption	Receipt: Approx. 1.8 A Slip: Approx. 1.7 A		Approx. 1.7 A (mean)	
D.K.D.function	2 drivers			
Reliability	Receipt: 36 x 10 ⁴ hours Slip: 18 x 10 ⁴ hours		36 x 10 ⁴ hours	
MCBF	Receipt: 52 x 10 ⁶ lines Slip: 18 x 10 ⁶ lines		70 x 10 ⁶ lines	
Overall dimensions (mm)	186 (W) x 298 (D) x 185 (H)		140 (W) x 201 (D) x 148 (H)	
Mass (Approx.)	5.8 kg		1.8 kg	
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B			
Power supply (option)	PS-170, PS-180		PS-170, PS-180	
Factory Options	MICR device, Endorsement Printer (E / P)		Wall-hanging bracket WH-10	
Safety Standards	UL / CSA / TÜV (EN60950)			

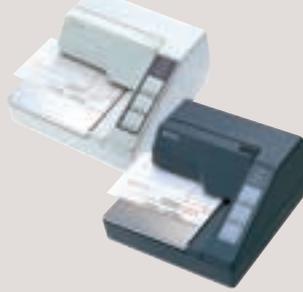
TM SERIES SPECIFICATIONS

Thermal Line Printer		Impact Dot Matrix Printer		Appearance
TM-T88II	TM-L60II	TM-U950 / U925	TM-U675	
				
Thermal line printing		9-pin, serial impact dot matrix		Print method
9 x 24 / 12 x 24		7 x 9 / 9 x 9		Font
56 / 42	42 / 32 (Roll paper) 40 / 30 (Label)	U950: Receipt (Journal): 40 / 30 Slip: 88 / 66 U925: Receipt: 40 / 30 Slip: 88 / 66	Receipt: 37 / 50 Slip / Validation: 45 / 60	Column capacity (columns)
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)	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, 37 International, 128 x 8 Graphic Traditional / Simple Chinese, Thai, Japanese Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR	95 Alphanumeric, 32 International, 128 x 7 Graphic Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR	95 Alphanumeric 32 International 128 x 8 Graphic	95 Alphanumeric 37 International 128 x 12 Graphic	Character set
20.0 cpi / 15.0 cpi		16.7 cpi / 12.5 cpi		Characters Per Inch
RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	RS-232, Bi-directional parallel	U950: RS-232, Bi-directional parallel U925: RS-232	RS-232, Bi-directional parallel RS-485, USB, 10 Base-T I/F	Interfaces*
4 KB or 45 bytes		2 KB or 32 bytes		Data buffer
120 mm / sec. (38 lps, 1 / 8" conversion)	50 mm / sec. (12 lps with 1 / 6" paper feed)	311 / 233 cps		Print speed
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 ^{+0.2} (W) x dia. 83.0	U950: 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) U925: Receipt: 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 ± 0.5 (W) x dia. 83.0 Slip: 70 (W) x 150 (L) to 148 (W) x 297 (L) Validation: 148 (W) x 70 (L) to 150 (W) x 210 (L) Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.2 (total thickness: 0.09 to 0.31)	Dimensions (mm)
0.06 to 0.07	Label: 0.143 ± 0.015	U950: Receipt (Journal): 0.06 to 0.09, Slip: 0.09 to 0.36 U925: Receipt: 0.06 to 0.09, Slip: 0.09 to 0.36		Thickness (mm)
-		One original and four copies (for slip)		Copy capability
-		ERC-31 (Purple, Black)		Inked ribbon
-		Purple: 7 x 10 ⁶ Black: 4.5 x 10 ⁶	Purple: 6 x 10 ⁶ Black: 4 x 10 ⁶	Ribbon Life (characters)
24 VDC ± 7%		24 VDC ± 10%		Power
Approx. 1.7 A (mean)	Approx. 1.0 A (mean)	Approx. 1.8 A (mean)		Power consumption
2 drivers				D.K.D.function
36 x 10 ⁴ hours	18 x 10 ⁴ hours	18 x 10 ⁴ hours		MTBF
52 x 10 ⁶ lines	29 x 10 ⁶ lines (thermal paper) 12 x 10 ⁶ lines (thermal label)	18 x 10 ⁶ lines		MCFB
145 (W) x 195 (D) x 148 (H)	123 (W) x 201 (D) x 124 (H)	U950: 251 (W) x 298 (D) x 194.5 (H) U925: 251 (W) x 298 (D) x 193.7 (H)	186 (W) x 298 (D) x 195 (H)	Overall dimensions (mm)
1.8 kg	0.8 kg	5.6 kg		Mass (Approx.)
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B				EMC standards
PS-170, PS-180	PS-170			Power supply (option)
Wall-hanging bracket WH-10	-		MICR device	Factory Options
UL / CSA / TÜV (EN60950)				Safety Standards

TM SERIES SPECIFICATIONS

Item	Impact Dot Matrix Printer			
	TM-U375	TM-U325	TM-U200 series	TM-U230
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)	1.6 (W) x 3.1 (H) / 1.2 (W) x 3.1 (H)	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 32 International 128 x 8 Graphic Traditional / Simple Chinese, Thai, Japanese (A type)	95 Alphanumeric, 37 International 128 x 8 Graphic Traditional / Simple Chinese,
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	16 or 17.8 cpi 13.3 or 14.5 cpi
Interfaces*	RS-232, Bi-directional parallel	RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F		
Data buffer	4 KB or 40 bytes	4 KB or 45 bytes	1 KB or 40 bytes	1 KB / 16 KB
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)	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 Slip: 70 (W) x 160 (L) to 182 (W) x 257 (L) Validation: 135 (W) x 70 (L) to 182 (W) x 257 (L) Roll paper: 0.06 to 0.085 / sheet Slip: 0.09 to 0.12 (total thickness: 0.09 to 0.31)	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) 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)	Roll paper: 76.0 ± 0.5 (W) x dia. 83.0
	Thickness (mm)	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	A type: One original and two copies B type: One original and one copy D type: One original and two copies	One original
Inked ribbon	ERC-38 (Purple, Black)		ERC-38 (Purple, Black, Black / Red)	
Ribbon Life (characters)	Purple: 4 x 10 ⁶ Black: 3 x 10 ⁶		Purple: 4 x 10 ⁶ , Black: 3 x 10 ⁶ B / R: 15 x 10 ⁵ (Black), 75 x 10 ⁴ (Red)	
Power	24 VDC ± 10%	AC adapter (included)		24 VDC ± 5%
Power consumption	Approx. 1.4 A	Approx. 43 W		
D.K.D.function	2 drivers			
Reliability	MTBF 18 x 10 ⁴ hours			
MCBF	18 x 10 ⁶ lines	49 x 10 ⁶ lines	18 x 10 ⁶ lines	
Overall dimensions (mm)	186 (W) x 327 (D) x 145 (H)	164 (W) x 240 (D) x 136 (H)	A type: 160 (W) x 295 (D) x 160 (H) B type: 160 (W) x 248 (D) x 150 (H) D type: 160 (W) x 248 (D) x 133 (H)	166 (W) x 168 (D) x 259.5 (H)
Mass (Approx.)	4 kg	2.3 kg	A type / B type: 2.5kg D type: 2.2kg	2.7 kg
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 - 170	Exclusive AC adapter (included)		Power supply built-in model / Power supply separate model
Factory Options	-		Near - end sensor	WH-10
Safety Standards	UL / CSA / TÜV (EN60950)	UL / CSA	UL / CSA / TÜV (EN60950)	

TM SERIES SPECIFICATIONS

Inkjet Printer		Slip Printer		
TM-J8000	NEW TM-J2000 / J2100	TM-U590	TM-U295	Appearance
				
Serial Inkjet dot matrix (128 nozzle / 360 dpi)	J2000: 64 nozzle serial inkjet (180 dpi x 180 dpi) J2100: 128 nozzle serial inkjet (180 dpi x 180 dpi)	9-pin, serial impact dot matrix	7-pin, shuttle impact dot matrix	Print method
22 x 48 / 18 x 36	12 x 24 / 9 x 17	7 x 9 / 9 x 9	5 x 7 / 7 x 7	Font
Receipt: 42 / 51 Slip: 130 / 158	82.5 mm 42 / 56 76 mm: 40 / 53 70 mm: 36 / 48 58 mm: 30 / 40	88 / 66	35 / 42	Column capacity (columns)
1.48 (W) x 3.32 (H) / 1.20 (W) x 2.47 (H)	1.41 (W) x 3.39 (H) / 0.99 (W) x 2.4 (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, 32 International, 128 x 9 Graphic Bar code: UPC-A, UPC-E, JAN13 (EAN), 2 of 5 (ITF), CODE39, CODE93, CODE128	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)	95 Alphanumeric 32 International 128 x 10 Graphic	95 Alphanumeric 32 International 128 x 3 Graphic	Print Font Character set
16.4 cpi / 20 cpi	15 cpi (Font A) / 20 cpi (Font B)	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 RS-485, USB, 10 Base-T I/F	RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F	RS-232, Bi-directional parallel	Interfaces*
4 KB or 45 bytes	4 KB or 512 bytes	4 KB or 69 bytes	512 bytes or 35 bytes	Data buffer
Receipt: 10.1 lps (at 42 columns) / 14.7 lps (at 51 columns) Slip: 4.9 lps (at 130 columns) / 7.3 lps (at 158 columns)	Character: 14.7 lps (8 lines / inch) Graphic: 43 mm / sec. (76 mm width paper, Full columns print)	311 / 233 cps	2.1 lps	Print speed
Receipt: 76 ± 0.5 x dia. 83.0 Slip: (W) 68 to 215.9 (L) 68 to 297.0	57.5 ± 0.5, 69.5 ± 0.5 76 ± 0.5, 82.5 ± 0.5	70 (W) x 70 (L) to 210 (W) x 297 (L)	80 (W) x 69 (L) to 182 (W) x 257 (L)	Dimensions (mm)
Receipt: 0.06 to 0.09 Slip: 0.09 to 0.15	0.06 to 0.11	0.09 to 0.2 (total thickness: ~ 0.36)	0.09 to 0.25 (total thickness with copy: ~ 0.35)	Thickness (mm)
—	—	One original and four copies	One original and two copies	Copy capability
Ink Cartridge: SJIC1 (Black)	Ink Cartridge: SJIC5 (Black for TM-J2000) SJIC3 (Black for TM-J2100) SJIC4 (Red, Blue, Green for TM-J2100)	ERC-31 (Purple, Black)	ERC-27 (Purple)	Inked ribbon
Ink Life: 12 x 10 ⁶	Ink Life: 24 x 10 ⁶ (Mono) 17 x 10 ⁶ (2 colors)	Purple: 7 x 10 ⁶ Black: 4.5 x 10 ⁶	15 x 10 ⁵	Ribbon Life (characters)
AC 85 V - 264.5 V (only for single phase)	—	24 VDC ± 10%	—	Power
25 W (Operating)	Approx. 1 A (Operating)	Approx. 1.9 A (mean)	Approx. 600 mA (mean)	Power consumption
2 drivers				D.K.D.function
18 x 10 ⁴ hours				MTBF
37 x 10 ⁶ lines	50 x 10 ⁶ lines	29 x 10 ⁶ lines	7 x 10 ⁶ lines	MCBF
325 (W) x 300 (D) x 200 (H)	195 (W) x 250 (D) (275 D with overhanging ledge) x 195 (H)	252 (W) x 266 (D) x 185 (H)	180 (W) x 190.5 (D) x 101.5 (H)	Overall dimensions (mm)
9.0 kg	4.7 kg	5 kg	1.6 kg	Mass (Approx.)
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	VCCI class A, FCC class A, CE marking, Canada EMI, AS / NZS 3548	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B		EMC standards
Universal power supply is built in	PS - 170			Power supply (option)
—				Factory Options
UL / CSA / TÜV (EN60950)				Safety Standards

DM-D Series

Clear, Easy-to-Read Displays

- DM-D500
- DM-D100 Series
- DM-D200 Series

ESPON 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.

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

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

• OPTIONS •

POWER SUPPLY



PS-170

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-D100 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 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-D200 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-D100 Series	DM-D200 Series
Display method / Color	Vacuum fluorescent display / Green (505 mm)	Vacuum fluorescent display / Green (505 mm)	Vacuum fluorescent display / Green (505 mm)
Number of characters	40 (20 columns x 2 lines)	40 (20 columns x 2 lines)	40 (20 columns x 2 lines)
Brightness	300 cd / m ²	690 cd / m ²	690 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	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	5 x 7 dot matrix, comma, decimal point, annunciator
Character size / pitch	—	3.5 x 5.0 mm / 5.2 mm	6.5 x 11.3 mm / 9.9 mm
Reliability	MTBF 30,000 hours	MTBF 20,000 hours	MTBF 20,000 hours
Power / current consumption	—	11.4-48 VDC / Approx. 6W	—
Overall dimensions	Panel: 213 (W) x 51 (D) x 83 (H) mm	165 (W) x 50.5 (D) x 69 (H) mm	260 (W) x 40 (D) x 83 (H) mm
Viewing angle	Max. 48° (5 positions)	Max. 48° (4 positions)	Max. 36° (3 positions)
Horizontal rotation	—	Max. 90°	Max. 330°
Case color	—	ECW (EPSON Cool White), EDG (EPSON Dark Gray)	—
EMC standards	—	VCCI class A, FCC class A, CE marking	—
Safety standards	—	UL / CSA / TÜV (EN 60950)	—
Power supply	—	PS-170 / Supplied by a TM printer or IM-310	—

Notes: * = Available with the baud rate 2,400-38,400 bps as displaying 20 columns x 2 lines.

System Product Guide

2001-2002

EPSON®

SEIKO EPSON CORPORATION

EPSON worldwide site
<http://www.epson.com>

EPSON POSnavi
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<http://www.epson-pos.com/posnavi/>

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