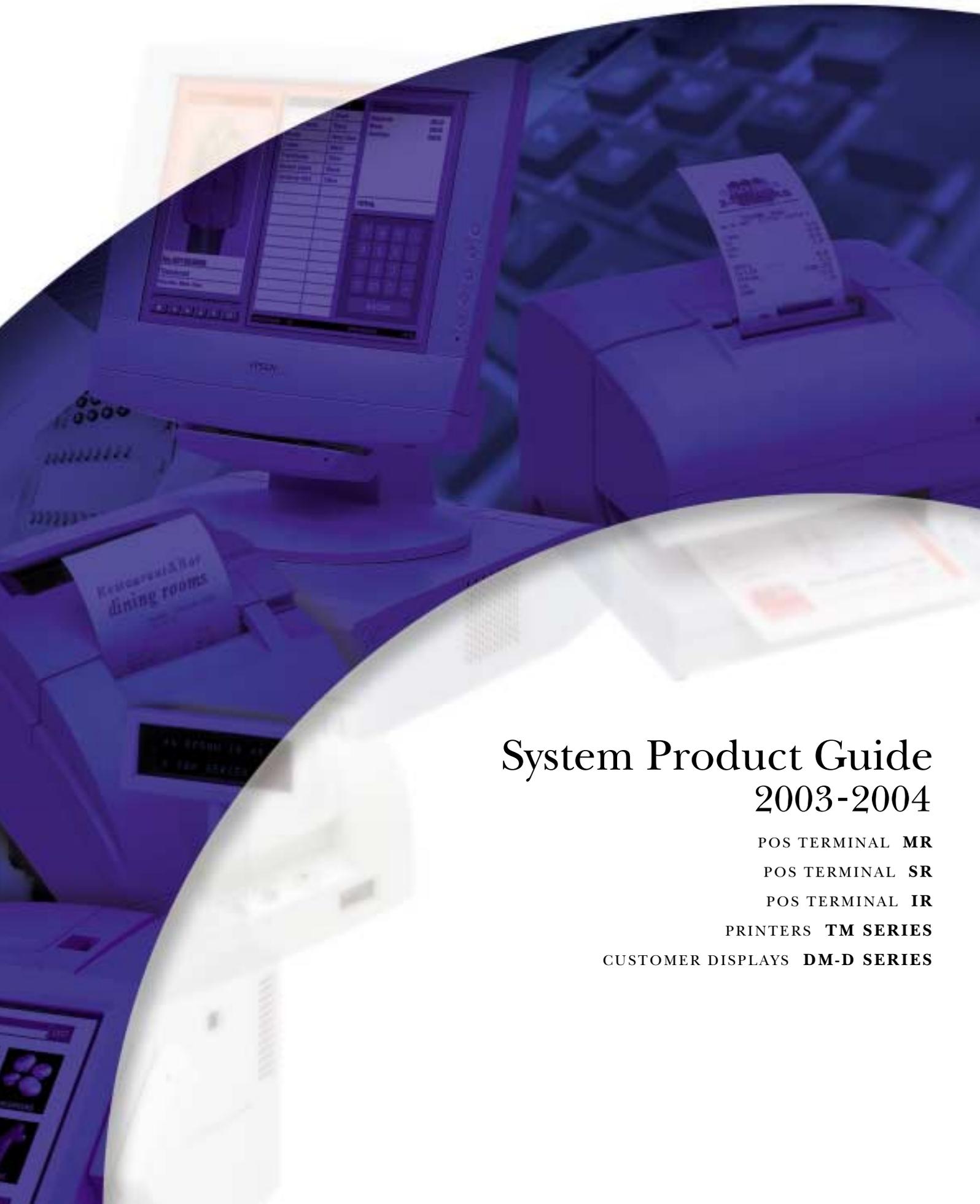




EPSON®



**System Product Guide
2003-2004**

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 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.

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.





POS Terminal
MR Series
4



Co-Existence Protecting The Environment

EPSON's efforts to protect the environment began more than 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.



POS Terminal
SR Series
6



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.



POS Terminal
IR Series
8



Ecology label

The products with this label meet EPSON ecology label compliance standards. The EPSON ecology label is a self-declared environmental label applied to environmentally conscious 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 -- 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, Windows NT®, Windows®98, Windows®2000 and Windows®XP 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.

Printers

TM Series
10

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, MR / SR / IR Series feature an easy-to-use touch panel.

Customer Displays

DM-D Series
30

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 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.

MR-800 Series

POS Terminal

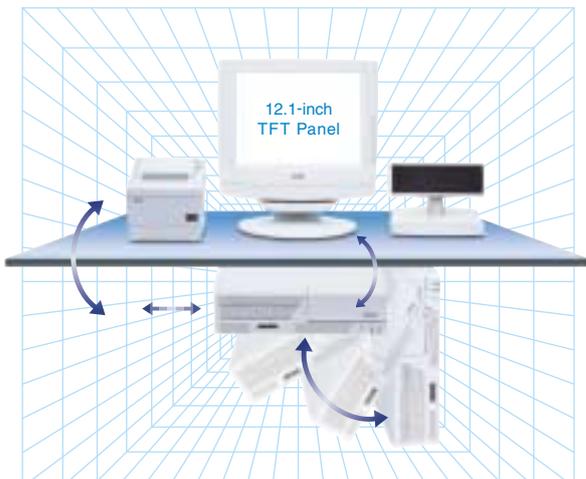
The EPSON MR Modular POS System

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

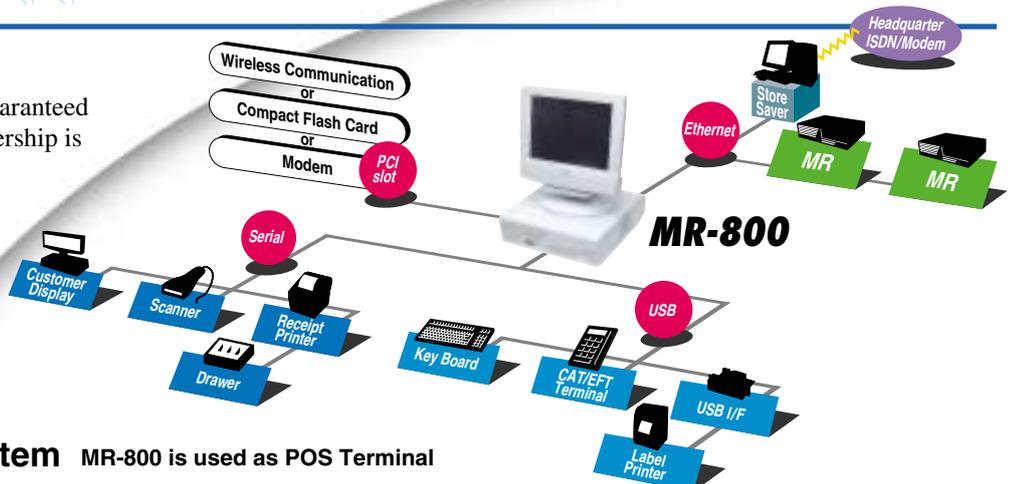
The MR's elegant, modular design in a small footprint, means that it can be arranged to fit neatly on to or under any counter. The main PC that can be arranged vertically or horizontally, giving you more options for under the counter installation.



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.

POS System MR-800 is used as POS Terminal





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



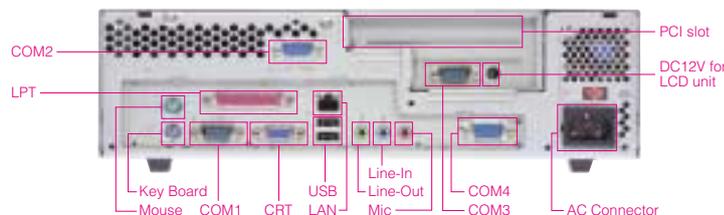
12.1-inch TFT Panel

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) CRT 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 (input unit)
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
Size	315 (W) x 365 (D) (280 without rear cover) x 88 (H) mm
Safety, EMC	CE marking: EN55022 class A, EN55024, EN60950, UL60950, FCC etc.

2. Input unit

LCD	Size, Type	12.1" TFT 800 x 600 dots
	Color	262144 colors
	Brightness	150 cd / m ² (w/TP:100cd / m ²)
	Lamp Life	20,000 hrs min.
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 (touch with finger)



SR-600 Series

POS Terminal

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

Quality and Performance at A Touch

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

Compact and unobtrusive, this outstanding 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?

Increased Efficiency

A powerful 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.



12.1-inch
Touch Panel

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

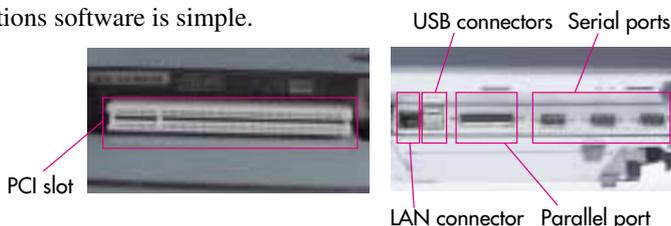


CD-ROM Drive

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.



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.

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.

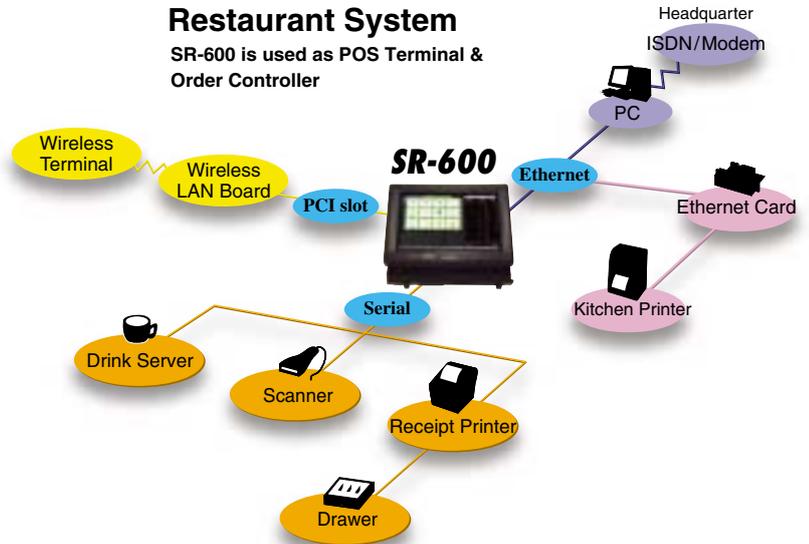


Not only functional, the sleek lines and refined good looks of the SR-600 Series are sure to enhance the appearance of any shop counter. This modernistic design will blend perfectly with the decor of even the most up-market specialty store or the highest class of hotels.



Restaurant System

SR-600 is used as POS Terminal & Order Controller



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.

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® 733 MHz
Memory	168-pin DIMM slots x 2 (Max. 512 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 (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 Supported	MS-DOS® 6.2, Windows® 98, Windows® 2000, Windows® XP, Windows NT®
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 , Backup battery



*1 Bay Configuration

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

CF: CompactFlash™ Card Slot

IR-320 Series

POS Terminal

Fast Versatile Printing & Easy Paper Loading

It's All Here!

The EPSON IR-320 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 cover 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.



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" (800 x 600 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 Automatic Status Back function and autocutter .



One Station Impact Dot Matrix Printer



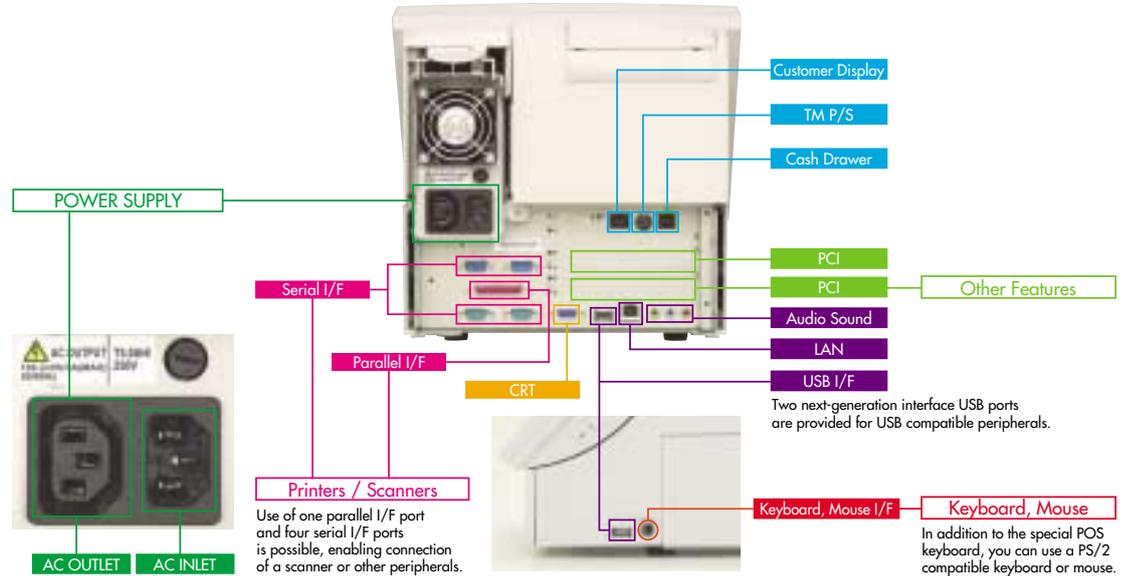
Hybrid Printer (Slip & Thermal Receipt)



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 CD-ROM drive, a CD-R/RW 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
CD-R/RW Drive



CompactFlash™ slot



MSR Unit



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



Printer Tray for
EPSON TM Series Printer

SPECIFICATIONS

CPU	Celeron® 733 MHz / 1.2 GHz
Memory	2 DIMM slots (Total 512 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
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, AC Outlet (100 - 240V:Max.3A) Sound: output to the built-in speaker. External line input / output, microphone input
Video	Built-in Chipset
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, output Max.180W
BIOS	ACPI 2.0b, APM 1.2, PnP 1.0a, SMBIOS 2.0
OS Supported	MS-DOS® 6.2, Windows® 98, Windows® 2000, Windows® XP, Windows NT®
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" TFT color (800 x 600), Resistive touch panel (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 track, Fixed to LCD or Keyboard unit, Communication via KB interface Optional Drive CD-ROM drive, CD-R / RW drive Keyboard POS 84-K/B, Programmable (277 (W) x 208 (D) mm <10.9" x 8.19">), 28-Key Keyboard Unit



TM Series

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

Fast Solution For Multiple Printing Needs

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-J7000/J7100, TM-J7500/J7600, TM-H6000II, TM-T88III, TM-T90/L90, U220 Series, U295)



Asian Multi-Language Capability

Extension memory enables use of multiple languages including Chinese and Thai. (TM-H6000II, H5000II, TM-T88III, T90, L90, TM-U230, U220, TM-J2000/J2100, U590)

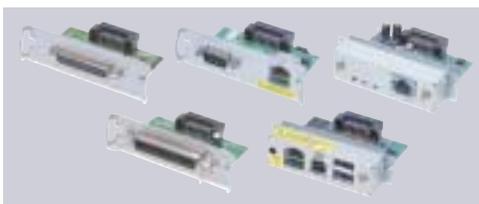


	Automatic Status Back Function
	Easy Paper Roll Setting
	Auto Feed Paper Loading
	Autocutter
	Two-color Printing
	MICR
	Maintenance Memory
	Display Port
	Multi Language
	Dark Gray

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 Tech
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-J7000/J7100, J7500/J7600, 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-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 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-T88III	TM-H5000II TM-H6000II
				TM-J8000 TM-J2000/J2100 TM-J7000/J7100 TM-J7500/J7600

Technology
Ability



TM Series



Inkjet Printers

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 printing, and low cost of ownership.

Inkjet Receipt and Slip Printer

Inkjet TM-J7000/J7100



EPSON DARK GRAY



Inkjet TM-J7500/J7600



EPSON DARK GRAY

The TM-J7500 (1-color) and TM-J7600 (2-color) — two new inkjet printers for the POS market from EPSON. The latest in the TM-J7000 series, these printers can handle wide slip paper (up to 135.6 mm {5.3"} in printing width). Combining high quality printing with speed and usability, the TM-J7500 and J7600 improve store management.

High Quality Inkjet Printing

Thanks to EPSON's world-renowned inkjet printing technology, its new 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.

Low Cost of Ownership

Ideal for retailers on a tight budget, plain paper printing, a tough print head and exceptional durability ensure that the cost of owning these printers is considerably less than other POS printers. A choice between economy, high speed and normal modes allows users to set the printer to suit their needs and budgets.

Flexible

A simple adjustment allows users to switch freely between a variety of paper sizes (57.5 to 82.5 mm). Designed to drop into existing systems, the TM-J7000 series are fitted with a wide range of interfaces.

High Performance (TM-J7000/J7100 only)

Despite its small footprint and compact size, the TM-J7000/J7100 boast exceptional performance. Thanks to the original EPSON Smart Pass™, 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.

Environmentally Conscious

This product meets EPSON ecology label compliance standards and has following major features.

1. Low energy consumption during standby is at the top of its class in this field.
2. Reduced resource consumption by miniaturization of the product and part reduction.
3. No use of chemical substances prohibited to be included in products for parts, materials, and packing materials.
4. Uses high quality plain paper, since it is easier for recycling than thermal paper.

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
Character size (mm)	Slip: 48 / 64 (J7000/J7100), 80/106 (J7500/J7600) *Endorsement: 46 / 61	
	1.41 (W) x 3.38 (H) / 0.99 (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	Two-dimensional code: PDF417	
	Characters per inch	15 / 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)
	Thickness (mm)	Receipt: 0.06 to 0.09 Slip: 0.09 to 0.2
Ink Cartridge	*Endorsement: 0.09 to 0.13	
	Single color: SJIC8 (K) : Black (for J7000/J7500 only)	
Ink life	Two color: SJIC6 (K) : Black, SJIC7 (R) : Red,	
	SJIC7 (B) : Blue, SJIC7 (G) : Green (for J7100/J7600)	
Factory options	Single color: Approx. 20 x 10 ⁶ Characters	
	Two color: Approx. 15 x 10 ⁶ Characters for 2 color cartridge	
Power	24 VDC ± 10%	
Power consumption	Printing: Approx. 0.5 A Stand-by: Approx. 70 mA (J7000/J7100), Approx. 80 mA (J7500/J7600)	
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 237 (D) x 188 (H) (J7000/J7100), 251 (W) x 237 (D) x 188 (H) (J7500/J7600)	
Mass (Approx.)	4.4 kg (J7000/J7100), 4.9kg (J7500/J7600)	
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3648 class B	
Power supply	PS-180 (option)	
Factory options	MICR device (J7000/J7100 only)	
Safety standards	UL / CSA / TÜV (EN60950)	

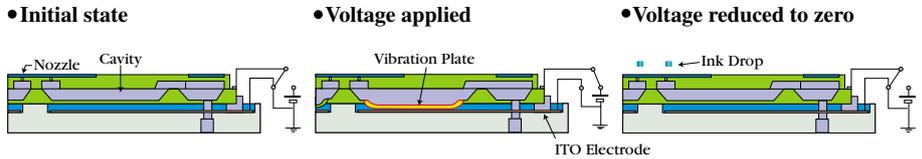


*Endorsement: TM-J7000/J7100 only
cpi: characters per inch
lps: lines per second

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 head, and gives POS printers high-resolution printing capability.

SEAJet® Acting Principle



Inkjet TM-J2000/J2100



High Performance in a Compact Body

Although compact with a small, space-saving format, the EPSON TM-J2000/J2100 deliver outstanding performance and attractive receipts/slips. 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 cartridges.



Inkjet Receipt Printer

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 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	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, AS / NZS 3548 class B
Power supply	PS-180 (option)
Safety standards	UL / CSA / TÜV (EN60950)

Inkjet TM-J8000



Fast Output

The EPSON TM-J8000 is not only fast, but offers users wide-slip printing. Speed is as high as 15/lps on roll paper and 3 pages/min. on A4.



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 characters
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)

TM Series

Hybrid Printers



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, 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-H6000II

High-Speed, High Performance Hybrid Printer



EPSON
DARK GRAY

Ultra-Fast Thermal Receipt Printing

Designed for speed, the EPSON TM-H6000II prints receipts at an impressive maximum speed of 170mm/sec. Checks can be printed and endorsed without the need to be manually reversed.

Beautiful Output

With 2-color, advanced graphic and barcode printing capability, this printer presents users with a variety of possibilities.

Check Printing Convenience

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

Environmentally Conscious

This product meets EPSON ecology label compliance standards and has following major features.

- No use of prohibited chemical substances for products, parts, materials, or packing materials for security and environmental protection.

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. 170 mm / sec. Slip: Approx. 5.14 ips (at 40 columns, 17.8 cpi) E / P: Approx. 1.9 ips
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
Power supply	PS-180 (option)
Factory options	MICR device, Endorsement printer (E / P)
Safety standards	UL / CSA / TÜV (EN60950)



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

TM-H6000II with Image Scanner

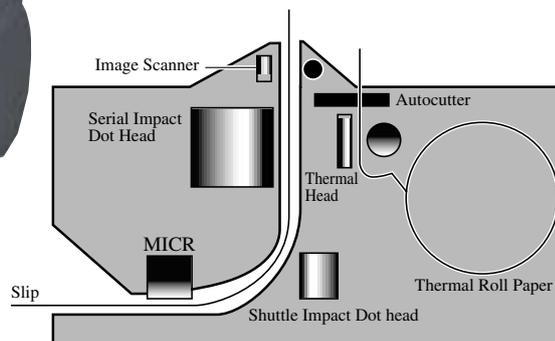
Exclusive Digital Check Imaging Tool

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



EPSON
DARK GRAY

High-Speed Printer with Digital Check Imaging



Leading Technology

The TM-H6000II with image 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, reduces the retailer's workload at the end of the day.

*Magnetic ink character recognition.

Image Scanner Specifications

Scanner type	CIS (Contact Image Sensor)
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 scanable area	Max. 1.5 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-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 7 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 (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-180 (option)
Factory options	MICR device
Safety standards	UL / CSA / TÜV(EN60950)

TM Series

Thermal Line Printers

Making the most of the advanced functions of the EPSON TM-L90 label printer is the new EPSON Business Label Software label design software. And the performance of EPSON's popular TM-T88series has boosted even further with the addition of the new TM-T88III.

Thermal Line

TM-L90 & EPSON Business Label Software

High-Speed, High Performance Label Printer



EPSON DARK GRAY

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.



You can design custom labels to meet your exact needs.



Readymade templates make designing labels quick and easy.

Flexible

The EPSON TM-L90 fits snugly into existing systems. Compatible with a wide range of paper widths, it also boasts a wide range of interfaces to allow easy connectivity.

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	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, MaxiCode, QRCode, Two-dimensional code: PDF417
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: 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-180 (option)
Option	Wall-hanging bracket WH-10
Safety standards	UL / CSA / TÜV (EN60950)



Thermal Line
TM-T90



EPSON
DARK GRAY

Ultra Fast

At 170 mm/sec., TM-T90 is one of the fastest class printers – even when it prints barcodes and logos.

Also capable of printing in 2-colors, customers are sure to be impressed by the output of this high-performance printer.

*Max. 2-color printing speed is 100 mm/sec.

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

High-Speed, High Performance Thermal Printer

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.

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: 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-180 (option)
Option	Wall-hanging bracket WH-10
Safety standards	UL / CSA / TÜV (EN60950)



Thermal Line
TM-T88III



EPSON
DARK GRAY

Fast and Flexible

Printing at 150 mm/sec. enables the TM-T88III to complete even large volume tasks quickly. With smooth and scalable font printing capability, this printer offers a choice of font sizes, and fence and ladder bar codes.

Fully Compatible with TM-T88II

The TM-T88III offers all the advantages of the TM-T88II with improved performance.

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 11 Graphic Traditional / Simplified Chinese, Thai, Japanese, Korean 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	Max. 150 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: 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-180 (option)
Option	Wall-hanging bracket WH-10
Safety standards	UL / CSA / TÜV (EN60950)



TM Series Impact dot matrix

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 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



The TM-U220 — The New Industrywide 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 frees 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	



High Cost-Performance Printers



EPSON DARK GRAY

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 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 0.06 to 0.085
Copy capability	One original and one copy
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	24W
D.K.D.function	2 drivers
Reliability	MTBF: 18 x 10 ⁴ hours MCBF: 18 x 10 ⁶ 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 / TÜV (EN60950)

Environmentally Conscious

This product meets EPSON ecology label compliance standards and has following major features.

1. Low energy consumption (25 % lower during operation, 60 % lower during standby than TM-U210)
2. Reduced labor for disassembly by reducing the number of parts
3. No use of chemical substances prohibited to be included in products for parts, materials and packing materials.
4. Uses high quality plain paper, since it is easier for recycling than thermal paper. Three selectable paper widths avoid wasting paper.

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 / Simplified Chinese 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 (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 ~ 34 VDC
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
Options	Wall-hanging bracket WH-10
Safety standards	UL / CSA / TÜV (EN60950)

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 (Purple)
Ribbon life	Purple: 7 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)
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 / 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 / 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 (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-180 (option)
Factory options	MICR device, Autocutter
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



TM Series

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.

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 Simplified Chinese, Japanese, Korean 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-180 (option)
Safety standards	UL / CSA / TÜV (EN60950)



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-180 (option)
Safety standards	UL / CSA / TÜV (EN60950)



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-U230
(Purple, Black, Black/Red)



ERC-31
for TM-U950,
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, Green, Blue)
Used with SJIC3



SJIC5
for TM-J2000
(Black)



SJIC6
for TM-J7100,
TM-J7600
(Black)



SJIC7
for TM-J7100, TM-J7600
(Red, Green, Blue)
Used with SJIC6



SJIC8
for TM-J7000,
TM-J7500
(Black)

ACCESSORIES



DC-21
DC cable set
(for TM series)



WH-10
Wall-hanging bracket
for TM-T90/L90, TM-T88III,
TM-U230, TM-U220



WT-5000
Extension table
for TM-H5000II

Expandability

UB-S01/02



UB-S09



UB-P02II



UB-U01II



UB-E01



UB-U04



UB-R01



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	UB-U04	UB-R01
Data transfer format	RS-232	RS-485	RS-232	IEEE1284	USB	USB	10BASE-T	USB w / Power	IEEE 802.11
Remarks			With DM-D connector		With hub	No hub		24 VDC	IEEE 802.11b

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.



EPSON OPOS ADK

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

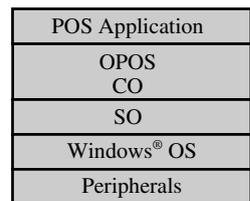
EPSON JavaPOS™ ADK

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.

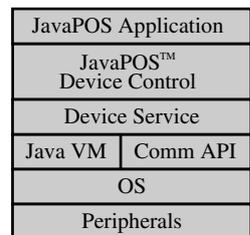
Standard Specifications

- ~ OPOS APG 1.7
- ~ JavaPOS™ PG 1.7

OPOS Architecture



JavaPOS™ Architecture



Migration To Non-POS Markets

EPSON Advanced Printer Driver

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.

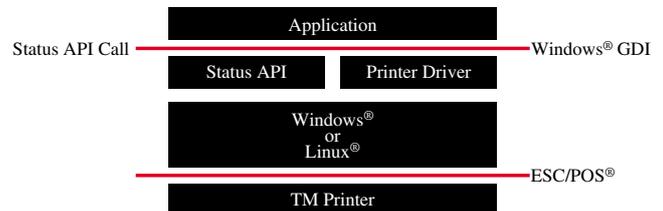
Advanced Printer Driver for Windows®

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.)

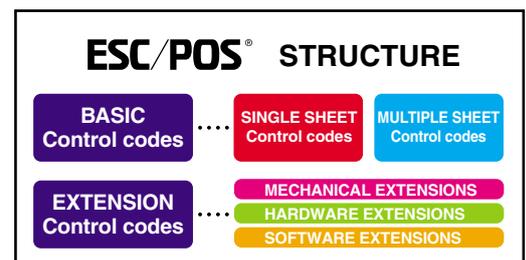
Advanced Linux® Printer Driver

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

TM SERIES SPECIFICATIONS

		Inkjet Printer		
Item	TM-J7000 / J7100	NEW TM-J7500 / J7600	TM-J2000 / J2100	
Appearance				
Print method	Serial Inkjet dot matrix (180 dpi x 180 dpi)		J2000: 64 nozzle serial inkjet (180 dpi x 180 dpi) J2100: 128 nozzle serial inkjet (180 dpi x 180 dpi)	
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	Receipt: 82.5 mm: 42 / 56, 76 mm: 40 / 53, 69.5 mm: 36 / 48, 57.5 mm: 30 / 40, Slip: 80 / 106	82.5 mm: 42 / 56, 76 mm: 40 / 53 70 mm: 36 / 48, 58 mm: 30 / 40	
Print Font	Character size (mm) 1.41 (W) x 3.38 (H) / 0.99 (W) x 2.40 (H)		1.41 (W) x 3.39 (H) / 0.99 (W) x 2.4 (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		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)	
Characters Per Inch	15 cpi (Font A) / 20 cpi (Font B)			
Interfaces*	RS-232, Bi-directional parallel, RS-485, USB, 10 Base-T I/F			
Data buffer	4 KB		4 KB or 512 bytes	
Print speed	Character: 14.3 lps, Graphic: 43 mm / sec. (Paper width 76mm, Economy, High speed mode)		Character: 14.7 lps (8 lines / inch) Graphic: 43 mm / sec. (76 mm width paper, Full columns print)	
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)	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)	57.5 ± 0.5, 69.5 ± 0.5 76 ± 0.5, 82.5 ± 0.5	
Thickness (mm)	Receipt: 0.06 to 0.09 Slip: 0.09 to 0.2, Endorsement: 0.09 to 0.13	Receipt: 0.06 to 0.09 Slip: 0.09 to 0.2	0.06 to 0.11	
Copy capability	-			
Inked ribbon	Ink Cartridge: Single color: SJIC8 (K) : Black (for TM-J7000 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B) : Blue, SJIC7 (G) : Green (for TM-J7100)	Ink Cartridge: Single color: SJIC8 (K) : Black (for TM-J7500 only) Two color: SJIC6 (K) : Black, SJIC7 (R) : Red, SJIC7 (B) : Blue, SJIC7 (G) : Green (for TM-J7600)	Ink Cartridge: SJIC5 (Black for TM-J2000) SJIC3 (Black for TM-J2100), SJIC4 (Red, Blue, Green for TM-J2100)	
Ribbon Life (characters)	Ink Life: Single color: Approx. 20 x 10 ⁶ Two color: Approx. 15 x 10 ⁹ for 2 color cartridge		Ink Life: 24 x 10 ⁶ (Mono) 17 x 10 ⁶ (2 colors)	
Power	24 VDC ± 10%			
Power consumption	Printing: Approx. 0.5 A Stand-by: Approx. 70 mA	Printing: Approx. 0.5 A Stand-by: Approx. 80 mA	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 237 (D) x 188 (H)	251 (W) x 237 (D) x 188 (H)	195 (W) x 250 (D) (275 D with overhanging ledge) x 195 (H)	
Mass (Approx.)	4.4 kg	4.9 kg	4.7 kg	
EMC standards	VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B			
Power supply (option)	PS-180			
Factory Options	MICR device	-		
Safety Standards	UL / CSA / TÜV (EN60950)			

*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

		Hybrid Printer		
TM-J8000	TM-H6000II	TM-H5000II		
			Appearance	
Serial Inkjet dot matrix (128 nozzle / 360 dpi)	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 method	
22 x 48 / 18 x 36	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	Font	
Receipt: 42 / 51, Slip: 130 / 158	Receipt: 56 / 42, Slip: 45 / 60, E / P: 40	Receipt: 56 / 42, Slip: 88 / 66	Column capacity (columns)	Print Font
1.48 (W) x 3.32 (H) / 1.20 (W) x 2.47 (H)	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 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	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), CODE39, CODE93, CODE128, ITF, CODABAR, Two-dimensional code: PDF417 (Receipt only)	95 Alphanumeric, 32 International, 128 x 7 Graphic (Receipt) 128 x 10 Graphic (Slip) Traditional / Simplified Chinese, Thai, Japanese	Character set	
16.4 cpi / 20 cpi	Slip: 13.3 cpi / 17.8 cpi	Receipt: 20.0 cpi / 15 .0 cpi Slip: 16.7 cpi / 12.5 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	
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)	Receipt: Max. 170 mm / sec. Slip: Approx. 5.14 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	Print speed	
Receipt: 76 ± 0.5 x dia. 83.0 Slip: (W) 68 to 215.9 (L) 68 to 297.0	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)	Dimensions (mm)	Paper
Receipt: 0.06 to 0.09 Slip: 0.09 to 0.15	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)	Thickness (mm)	Copy capability
–	Slip: One original and three copies, E / P: One original single ply	Slip: One original and four copies		
Ink Cartridge: SJIC1 (Black)	Slip: ERC-32 (Purple, Black), E / P: ERC-41 (Purple, Black)	ERC-31 (Purple, Black)	Inked ribbon	
Ink Life: 12 x 10 ⁶	Slip: Purple: 6 x 10 ⁶ , Black: 4 x 10 ⁶ E / P: Purple: 1 x 10 ⁶ , Black: 8 x 10 ⁵	Purple: 7 x 10 ⁶ · Black: 4.5 x 10 ⁶	Ribbon Life (characters)	
AC 85 V - 264.5 V (only for single phase)	24 VDC ± 10 %		Power	
25 W (Operating)	Receipt: Approx. 1.8 A Slip: Approx. 1.7 A	Receipt: Approx. 1.7 A Slip: Approx. 1.9 A	Power consumption	
2 drivers			D.K.D.function	
18 x 10 ⁴ hours	Receipt: 36 x 10 ⁴ hours, Slip: 18 x 10 ⁴ hours		MTBF	Reliability
37 x 10 ⁶ lines	Receipt: 52 x 10 ⁶ lines Slip: 18 x 10 ⁶ lines	Receipt: 52 x 10 ⁶ lines Slip: 29 x 10 ⁶ lines	MCBF	
325 (W) x 300 (D) x 200 (H)	186 (W) x 298 (D) x 185 (H)	252 (W) x 331 (D) x 201 (H) (excluding extended table)	Overall dimensions (mm)	
9.0 kg	5.8 kg	6.5 kg	Mass (Approx.)	
VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B	VCCI class A, FCC class A, CE marking, 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-180		Power supply (option)	
–	MICR device, Endorsement Printer (E / P)	MICR device	Factory Options	
UL / CSA / TÜV (EN60950)			Safety Standards	

TM SERIES SPECIFICATIONS

		Thermal Line Printer		
Item		TM-T90	TM-L90	TM-T88III
Appearance				
Print method		Thermal line printing		
Font		9 x 17 / 12 x 24		
Column capacity (columns)		56 / 42	64 / 48	56 / 42
Character size (mm)		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)	0.99 (W) x 2.4 (H) / 1.41 (W) x 3.39 (H)
Print Font	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, Maxicode (L90 only), QRCode (L90 only), Two-dimensional code: PDF417		95 Alphanumeric, 37 International, 128 x 11 Graphic Traditional / Simplified Chinese, Thai, Japanese, Korean Bar code: UPC-A, UPC-E, JAN8 (EAN), JAN13 (EAN), CODE39, CODE93, CODE128, ITF, CODABAR
Characters Per Inch		20.0 cpi / 15.0 cpi	22.6 cpi / 16.9 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		Max. 170 mm / sec.	Max. 150 mm / sec.	
Paper	Dimensions (mm)	Roll paper: Max. 79.5 ± 0.5 (W) x dia. 102.0	Roll paper: Max. 79.5 ± 0.5 (W) x dia. 90 .0	Roll paper: 79.5 ± 0.5 (W) x dia. 83.0
	Thickness (mm)	0.06 to 0.08	0.06 to 0.15	0.06 to 0.07
Copy capability		-		
Inked ribbon		-		
Ribbon Life (characters)		-		
Power		24 VDC ± 7%		
Power consumption		Approx. 1.7 A (mean)		Approx. 1.8 A (mean)
D.K.D.function		2 drivers		
Reliability	MTBF	36 x 10 ⁴ hours		
	MCFB	70 x 10 ⁶ lines	70 x 10 ⁶ lines (when printing receipt)	52 x 10 ⁶ lines
Overall dimensions (mm)		140 (W) x 201 (D) x 148 (H)	140 (W) x 148 (D) x 203 (H)	145 (W) x 195 (D) x 148 (H)
Mass (Approx.)		1.8 kg	1.9 kg	1.8 kg
EMC standards		VCCI class A, FCC class A, CE marking, AS / NZS 3548 class B		
Power supply (option)		PS-180		
Factory Options		-		
Safety Standards		UL / CSA / TÜV (EN60950)		

*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-L60II	Impact Dot Matrix Printer		
	TM-U950	TM-U675	
			Appearance
Thermal line printing	9-pin, serial impact dot matrix		Print method
9 x 24 / 12 x 24	7 x 9 / 9 x 9	5 x 9 / 7 x 9	Font
42 / 32 (Roll paper), 40 / 30 (Label)	Receipt (Journal): 40 / 30, Slip: 88 / 66	Receipt: 37 / 50, Slip / Validation: 45 / 60	Column capacity (columns)
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, 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 9 Graphic	95 Alphanumeric 37 International 128 x 12 Graphic	Print Font Character set
20.0 cpi / 15.0 cpi	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-232, Bi-directional parallel RS-485, USB, 10 Base-T I/F	Interfaces*
4 KB or 45 bytes	2 KB or 32 bytes	4 KB or 45 bytes	Data buffer
50 mm / sec. (12 lps with 1 / 6" paper feed)	311 / 233 cps	Approx. 5.14 lps (at 40 columns, 17.8 cpi)	Print speed
Roll paper: 60.0 ⁺⁰ (W) x dia. 83.0 Label: 60.0 ^{+0.2} (W) x dia. 83.0	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)
Label: 0.143 ± 0.015	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 (Purple)	ERC-32 (Purple, Black)	Inked ribbon
–	Purple: 7 x 10 ⁶	Purple: 6 x 10 ⁶ , Black: 4 x 10 ⁶	Ribbon Life (characters)
24 VDC ± 7%	24 VDC ± 10%		Power
Approx. 1.0 A (mean)	Approx. 1.8 A (mean)		Power consumption
	2 drivers		D.K.D.function
	18 x 10 ⁴ hours		MTBF
29 x 10 ⁶ lines (thermal paper) 12 x 10 ⁶ lines (thermal label)	18 x 10 ⁶ lines	37 x 10 ⁶ lines	Reliability MCFB
123 (W) x 201 (D) x 124 (H)	251 (W) x 298 (D) x 194.5 (H)	186 (W) x 298 (D) x 195 (H)	Overall dimensions (mm)
0.8 kg	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 / TÜV (EN60950)		Safety Standards

TM SERIES SPECIFICATIONS

Item	Impact Dot Matrix Printer		
	TM-U375	TM-U325	NEW 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)	1.6 (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, 37 International 128 x 12 Graphic Traditional / Simplified Chinese, Thai, Japanese, 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 (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)	
Power consumption	Approx. 1.4 A	Approx. 43 W	24V
D.K.D.function	2 drivers		
Reliability	18 x 10 ⁴ hours		
MTBF	18 x 10 ⁶ lines		
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)	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 / TÜV (EN60950)	UL / CSA	UL / CSA / TÜV (EN60950)

*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	95 Alphanumeric 32 International 128 x 10 Graphic Simplified Chinese Japanese, Korean	95 Alphanumeric 32 International 128 x 3 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	2.1 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 (Purple, Black, Black / Red)	ERC-31 (Purple, Black)	ERC-27 (Purple)	Inked ribbon
Purple: 4 x 10 ⁶ , Black: 3 x 10 ⁶ B / R: 15 x 10 ⁵ (Black), 75 x 10 ⁴ (Red)	Purple: 7 x 10 ⁶ , Black: 4.5 x 10 ⁶	15 x 10 ⁵	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
18 x 10 ⁴ hours			MTBF
18 x 10 ⁶ lines	29 x 10 ⁶ lines	7 x 10 ⁶ 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)
2.7 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 / TÜV (EN60950)			Safety Standards

DM-D Series

Clear, Easy-to-Read Display

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

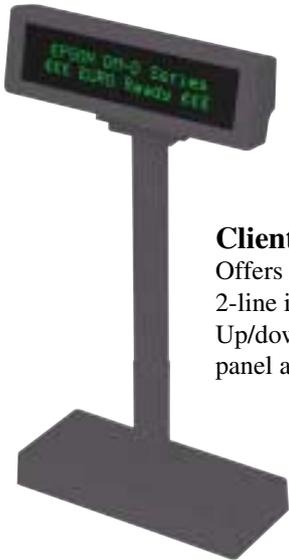
Panel and height adjustment possible with optional support.
Ideal for restaurants and specialty stores.



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	MTBF 30,000 hours	MTBF 20,000 hours	
Power / current consumption	11.4-48 VDC / Max. 6W	11.4-48 VDC / Max. 5W	11.4-48 VDC / Max. 10W
Overall dimensions	Panel: 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)		Max. 330° (combination with DP-210)
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-180 / Supplied by a TM printer or IM-320 or IM-600		

System Product Guide 2003-2004

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