



# M84Se

## SUPERIOR TECHNOLOGY

### FEATURES

- /// Print Speed up to 12 inches per second
- /// Right and Left Hand Models
- /// Heavy Duty, High Throughput Industrial Design
- /// Easy Connectivity
- /// Designed Specifically for Print and Apply Systems
- /// RFID Ready

### APPLICATIONS

- /// Manufacturing
- /// Food
- /// Bottling
- /// Distribution
- /// Warehouse
- /// Transport
- /// Postal Services

# M8485Se / M8490Se / M8459Se / M8460Se / M8465Se

PRINTING SPECIFICATION		M8485Se	M8490Se	M8459Se	M8460Se	M8465Se
Print Method	Thermal Transfer	/	/	--	/	/
	Direct Thermal	/	/	/	/	/
	Left Hand	/	/	/	/	/
	Right Hand	/	/	--	/	/
Print Resolution, dots/mm (dpi)		8 dots/mm (203dpi)	12 dots/mm (305dpi)	8 dots/mm (203dpi)	8 dots/mm (203dpi)	12 dots/mm (305dpi)
Max. Print Area	Width, mm (inch)	128mm (5")	112mm (4.4")	112mm (4.4")	152mm (6")	152mm (6")
	Length, mm (inch)	1249mm (49.2")	833mm (32.8")	1249mm (49.2")	1249mm (49.2")	833mm (32.8")
Print Speed, mm/sec (ips)		Up to 300mm/sec	Up to 200mm/sec	Up to 125mm/sec	Up to 200mm/sec	Up to 200 mm/sec
Commands/Programming Language		SBPL 4.2				
CPU		32 bit RISC				
Printer Memory		2MB Flash ROM, 16MB SDRAM				

## CONSUMABLES SPECIFICATION (Recommended to use printer supplies manufactured or certified by SATO)

Sensor Type		I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive)				
Media Type		Roll die cut labels, Plain paper face stock and Synthetics				
Media Thickness		0.10 – 0.18mm (0.004" – 0.007")				
Label Size	Continuous	Width	22 – 131mm (0.87" – 5.16")	22 – 131mm (0.87" – 5.16")	22 – 131mm (0.87" – 5.16")	50 – 162mm (1.97" – 6.38")
		Length	15 – 1249mm (0.59" – 49.2")	15 – 833mm (0.59" – 32.8")	15 – 1249mm (0.59" – 49.2")	15 – 833mm (0.59" – 32.8")
	Dispenser	Width	22 – 131mm (0.87" – 5.16")	22 – 131mm (0.87" – 5.16")	22 – 131mm (0.87" – 5.16")	50 – 162mm (1.97" – 6.38")
		Length	15 – 1249mm (0.59" – 49.2")	15 – 833mm (0.59" – 32.8")	15 – 1249mm (0.59" – 49.2")	15 – 833mm (0.59" – 32.8")
Ribbon	Width	39.5mm (1.56") to 134mm (5.28")		--	146mm (5.75") to 165mm (6.50")	
	Max. Length	600m (1969')		--	600m (1969')	
	Core Diameter	Ø 25.4mm (1')		--	Ø 25.4mm (1')	
	Wind Direction	Face-in		--	Face-in	

## FONTS / SYMBOLOGIES

Fonts	Standard Fonts	Bitmap Fonts Alphanumerical and Symbol: WB (18x30 dot), WL (28x52 dot), XU (5x9 dot), XS (17x17 dot), XM (24x24 dot), XB (48x48 dot), XL (48x48 dot), OCR-A (15x22 dot), OCR-A (22x23 dot), OCR-B (20x24 dot), OCR-B (30x36 dot)				
	Rasterized Fonts	CG Times, CG Triumvirate				
Barcode	1D Barcode	UPC-A/E, JAN/EAN-8/13, Code 39, Code 128, GS1-128 (UCC /EAN128), Codabar (NW-7), Interleaved 2 of 5, Bookland (2/5 char add-on code), GS1 Databar (RSS14), Composite JAN/EAN-8/13; Composite UPC A/E; Composite GS1 128/CC				
	2D Barcode	PDF417 (Ver2.4), MAXI Code (Ver3.0), QR Code, GS1 Data Matrix (ECC200)				
Print Rotation	Character Data / Barcode	0°, 90°, 180°, 270°				

## INTERFACE CHARACTERISTICS

Standard Interface	External I/O connector 14 Pin Amp. (Applicator interface)
Optional Plug-in Interface	IEEE1284, Centronics parallel, RS232C (2400-19,200 Baud), RS232C highspeed (9,600-57,600 baud), USB (12Mbit/s), LAN (TCP/IP protocol 10/100BaseT), Wireless LAN 802.11b/g

## OPERATING CHARACTERISTICS

Power Requirements	Input voltage AC100-240V (auto switching)/M8485Se: 170W (peak) – M8459Se: 130W (peak) – M8490Se: 150W (peak) – M846xSe: 250W (peak)	
Dimensions	(W x D x H): 245 x 410 x 300mm (9.65" x 16.1" x 11.8")	(W x D x H): 265 x 455 x 302mm (10.4" x 17.9" x 11.9")
Weight	11.34kg (25lbs)	
Environment	Operating	5 – 40°C / 15 – 85% RH (without condensation)
	Storage	-20 – 40°C / 15 – 90% RH (without condensation)
	ESD Immunity	8kV

## MISCELLANEOUS

Certifications	FCC, UL, CSA, CCC, CE, ROHS compliant	
Function	Useful Features	Hex dump, Custom character design, Sequential numbering, Form storage and recall for faster data retrieving of complex format, Applicator interface, Multilingual display
	Self Diagnosis Checking	Head check, Paper end detection, Ribbon end / Near-end detection (remaining 15 – 30m), Auto sensing for continuous forms, Memory card error detection, Test print

## OPTIONS

Accessories	Memory Expansion (4MB ROM Onboard; 4MB SRAM PCMCIA); Plug-in Interface Modules, Smart Keyboard, RFID UHF Kit, SATO Label Gallery™, Real-Time Clock (standard)
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## RFID SPECIFICATION (optional)

UHF	Standard	ISO/IEC 18.000-6
	Frequency	868MHz
	Protocols	Matrics 0+, EPC Gen 1 Class 1, EPC Gen 1 Class 0, EPC Gen 2 Class 1, NXP UCODE 1.19
RFID Features	Fully integrated UHF RFID Reader / Encoder Module, RFID calibration function for optimal transponder performance, Void marking of damaged or unreadable Transponders, RFID data verification after programming, Multiple RFID power settings allow users to use individual Transponder sizes, DIP (Direct Inlay Printing) allows to use short pitch labels down 4mm, PWP function allows flexible Inlay positions, TID reading and printing as text and Barcode	
Gen2 Memory	Expanded EPC (240bit), User Memory (512bit), TID (64bit), Access password (16bit), Kill password (16bit), Lock	