

  
M84Se

## On-line Labelling Modules – SATO M84Se

Engineered to operate in time critical situations, the SATO S Series delivers unrivalled throughput and easily handles complex labels. Built to withstand harsh environments, durability is assured, while the choice of interfaces allows integration in almost all systems.

- **High speed throughput**
- **Heavy duty construction**
- **112mm and 152mm print width**
- **Clock/calendar function**
- **Easy connectivity**
- **Powerful memory**
- **Windows ® compatible**
- **8 and 12 dot/mm resolution**

**Speed and Precision** – The modules can print popular linear and 2-D bar codes, text and graphics, all of which can be rotated. The RISC processor controls data transmission and throughput, which in combination with print speeds of up to 300mm/sec means time to first label is effectively instantaneous.

**Save Time** – Engineered to save time, the small gap between print element and dispenser, results in a short backfeed time, while the close position of the dispenser to the object to be labelled is extremely advantageous. The simple label path, large ribbon capacity and the automatic multi-sensor, also ensure that the time taken to change media and to re-start printing is reduced to the minimum.

**Reliable** – The highest standards of engineering and materials are used to build SATO print engines. They are designed to print high quality labels around the clock with the minimum of maintenance. Printheads are carefully selected for their long life and the heavy duty steel case is intended specifically for production environments.

**Flexible** – The flexible range of printer options makes it easy to find a SATO OEM Module to meet your labelling needs and the wide choice of interfaces allows for effortless, flexible integration into nearly all applications.

**Easy Installation** – Minimum clearance space is needed to install the printer and identical fixings and compatibility allows simple upgrading to the system of your choice. This is complemented by the multi-lingual display, which enables straightforward set up and operation by the user.

# S SERIES M84Se

	M 8459e	M 8490Se	M 8485Se	M 8460Se
<b>Printing Method</b>	Direct Thermal	Direct Thermal or Thermal Transfer		
<b>Print Resolution</b>	8 dots/mm (203 dpi)	12 dots/mm (305 dpi)	8 dots/mm (203dpi)	
<b>Print Direction</b>	Left Hand	Left Hand/Right Hand		
<b>Print Speed</b>	Up to 125mm/sec (5 ips)	Up to 200mm/sec (8 ips)	Up to 300mm/sec (12 ips)	Up to 200mm/sec (8 ips)
<b>Max. Print Width</b>	112mm (4.4")		128mm (5")	152mm (6")
<b>Max. Print Length</b>	1249mm (49.2")	833mm (32.7")	1249mm (49.2")	1249mm (49.2")
<b>Media Size</b>	<b>Min:</b> 22mm (0.86") W x 15mm (0.59") L <b>[Web:</b> 25mm (0.98") W x 18mm (0.71") L <b>Max:</b> 131mm (5.16") W x 356mm (14.10") L <b>[Web:</b> 134mm (5.3") W x 359mm (14.10") L			<b>Min:</b> 50mm (1.96") W x 15mm (0.59") L <b>[Web:</b> 53mm (2.00") W x 18mm (0.71") L <b>Max:</b> 162mm (6.38") W x 356mm (14.10") L <b>[Web:</b> 165mm (6.50") W x 359mm (14.10") L
<b>Max. Ribbon Size</b>	131mm (5.1") W x 650m (710 yds) L Type: black and colour, face-in	131mm (5.1") W x 650m (710 yds) L Thickness: 4.5 ums Type: black and colour, face-in		165mm (6.5") W x 650m (710 yds) L Thickness: 4.5 ums Type: black and colour, face-in
<b>Dimensions</b>	265mm W x 417mm D x 302mm H (10" W x 16.4" D x 11.9" H)			265mm W x 455mm D x 302mm H (10.4" W x 17.9" D x 11.9" H)
<b>Weight</b>	11.5 kg (25 lbs)	11.5 kg (25 lbs)	11.5 kg (25 lbs)	12.5 kg (28 lbs)

## Memory:

Standard Memory: 16 MB SDRAM; 2.9 MB Input Buffer; 2 MB Flash Memory Option  
Memory Expansion:  
Internal – 4 MB Flash Memory SIMM card  
External – up to 4 MB S-RAM Card or up to 16 MB Flash Card

## Processor:

- 32-BIT RISC, 118 Mhz

## Sensing:

Reflective sensor (I-mark) bottom reading, fixed/see-through sensor (Gap), movable

## Label Thickness:

- Continuous: 0.1 - 0.25mm. (0.003" - 0.009")
- Dispense: 0.1 - 0.18mm (0.003" - 0.007")

## Print Darkness:

- 3 steps; selectable by printer driver (<ESC> codes) or via display

## Print Mode:

- Continuous and dispense for die-cut labels or continuous material

## Plug-In Interface Modules:

- ECP parallel (IEEE 1284)
- Centronics parallel
- RS232C (2,400 – 19,200 Baud)
- RS232C high speed (9,600 – 57,600 baud)
- USB (12 Mbit/s)

- LAN (TCP/IP protocol 10/100 Base T)
- RS422/485
- LAN 802.11b wireless

## Bar Code Symbolologies:

- **Linear:** UPC A/E, EAN 8/13, Code 39, Code 93, Code 128, UCC/EAN 128, Interleaved 2/5, Industrial 2/5, Matrix 2/5, Codabar, MSI, Bookland, Postnet
- **2-Dimensional:** Data matrix, Maxicode, PDF 417, QR-Code, RSS-14

## Bar Code:

- Ratio: 1:2, 1:3, 2:5
- Size: Height: 4 dots - 600 dots  
Width: user definable

## Human Readable Fonts:

12 proportional and mono-spaced and outline fonts. (Code page 858, others available)  
Internal CG Triumvirate® and CG Times® fonts plus downloaded TrueType®, scalable from 8 - 99 points

## Flexibility:

360° rotation of bar code and text in 90° steps; character expansion horizontally and vertically. RAM storage for special characters, dot-addressable graphics, repeat print, sequential numbering, form overlay for high speed editing of complex formats, back feed, Real Time Clock in text and bar codes is standard.

## Graphic Support:

- SATO Hex/Binary format
- PCX format
- BMP format

## Character Expansion

- Up to 12 times. Vertically and horizontally

## Print Control:

- User programmable via data stream

## Data Transmission:

- ASCII

## Self Check:

Self Check mode includes head check, bar code check, memory card verification

## Power:

- 100V-120V/200V-240V, 50/60 Hz, idle 50W, max. 700W

## Environmental:

- **Operating:** 5° to 40°C (41° to 104°F)  
15 to 85% RH non-condensing
- **Storage:** -20 to 40°, non-condensing;
- ESD Immunity: 8 kV

## Approvals:

- CE, TÜV-GS, UL, CSA

## Options:

- Memory expansion, keyboard



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