



# S84 Series

## OEM PRINT ENGINE

### FEATURES

- Large LCD display
- 203, 305 and 609 dpi
- Up to 104mm print width
- 1,000m ribbon capacity
- Heavy duty industrial design
- Ribbon saver function
- Optional quick change ribbon cassette
- 16 ips print speed
- Easy maintenance
- RFID Ready

### APPLICATIONS

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

# S8408 / S8412 / S8424

| PRINTING SPECIFICATION          |                   | S8408               | S8412                | S8424                |
|---------------------------------|-------------------|---------------------|----------------------|----------------------|
| Print Method                    | Thermal Transfer  | /                   | /                    | /                    |
|                                 | Direct Thermal    | /                   | /                    | /                    |
| Print Resolution, dots/mm (dpi) |                   | 8 dots/mm, (203dpi) | 12 dots/mm, (305dpi) | 24 dots/mm, (609dpi) |
| Max. Print Area                 | Width, mm (inch)  | 104mm (4.09")       | 104mm (4.09")        | 104mm (4.09")        |
|                                 | Length, mm (inch) | 2,500mm (98.4")     | 1,500mm (59.0")      | 400mm (15.7")        |
| Print Speed, mm/sec (ips)       |                   | Up to 300mm/sec     | Up to 200mm/sec      | Up to 125mm/sec      |

| CONSUMABLES SPECIFICATION (Recommended to use printer supplies manufactured or certified by SATO) |  |                                   |
|---|--|-----------------------------------|
| Sensor Type   | Adjustable Gap (See-through) Sensor, Reflective Sensor |                                   |
| Media Type  | Roll Die-Cut Labels, paper face stock and synthetics   |                                   |
| Media Size  | Width (inc. Liner)                                     | 13mm - 131mm (0.5" - 5.15")       |
|   | Length   | 15mm (0.6") to Max. Print Area    |
|   | Thickness  | 0.05mm - 0.31mm (0.002" - 0.012") |
| Ribbon  | Width  | 25mm - 128mm (0.98" - 5.0")       |
|   | Length   | 1,000m (Max. 3,280')              |
|   | Core   | Ø 25.4mm (1")                     |
|   | Wind direction   | Face-in/out                       |
| Ribbon Saving   | Factory Option   |                                   |
| Ribbon Cassette (Quick Change)  | Factory Option (uses std. ribbon)                      |                                   |

| MEMORY/PROCESSING |   |
|-------------------|---|
| Processor         | 32-bit RISC   |
| Memory            | 4 MB Flash ROM, 16 MB SDRAM, Optional Compact Flash |
| Receive Buffer    | 2.95 MB max.  |
| Real Time Clock   | Standard  |

| FONTS / SYMBOLOGIES |                  |   |
|---------------------|------------------|---|
| Fonts               | Standard Fonts   | XU, XS, XM, XB, XL, Outline, OCR-A, OCR-B   |
|                     | Rasterized Fonts | CG Times (Serif), CG Triumvirate (San Serif)  |
| Barcode             | 1D Barcode       | UPC-A/E, EAN-8, EAN-13, Code 39, Code 93, Code 128, Codabar, MSI, Bookland, Industrial 2/5, Interleaved 2/5, Matrix 2/5, Postnet™, GS1-128, GS1-DataBar™, Intelligent Mail® Barcode (IMB) |
|                     | 2D Barcode       | PDF417, Micro PDF417, Truncated PDF417, Maxicode™, Data Matrix, QR Code, Composite Symbology  |

| COMMUNICATION INTERFACES        |  |
|---------------------------------|--|
| I/F-1 (PCI Bus):                | 1 per printer: RS232C (9-pin); USB; Ethernet   |
| I/F-2 (Std. Interface):         | 1 per printer: IEEE1284 (Parallel); RS232C (25-pin); USB; Ethernet (10BaseT/100BaseTX auto-switching); Wireless LAN (802.11g); RS422/485 |
| EXT Port (Applicator Interface) | 14-Pin Centronics style connector (Amphenol) (opt. 25-pin D-sub)   |

| OPERATING CHARACTERISTICS |  |   |
|---------------------------|--|---|
| Power Requirements        | 100 - 240 VAC (+/- 10%); 50/60 Hz; Auto-Switching  |   |
| Dimensions                | 245mm (9.7") W x 408mm (16.1") D x 300mm (11.8") H |   |
| Weight                    | 16.0 kg Standard Configuration                     |   |
| Environment               | Operating  | 5° - 40°C; 15% - 85% RH, non-condensing   |
|                           | Storage  | -20° - 60°C; 15% - 85% RH, non-condensing |

| CERTIFICATIONS |                                   |
|----------------|-----------------------------------|
|                | CE, MET, FCC, CCC, RoHs Compliant |

| RFID SPECIFICATION (optional) |   |                  |
|-------------------------------|---|------------------|
| UHF                           | Standard  | ISO/IEC 18.000-6 |
|                               | Frequency   | 868MHz           |
|                               | Protocols   | EPC Gen 2        |
| 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  |                  |

SATO makes no guarantee that the above features are available in all models, and specifications are liable to change, without notice. Version 02/12. \* Measurements are approximate values.