GENERAL SPECIFICATIONS | S84-ex/S86-ex

PRINT SPECIFICATIONS

Printer Models

Direct Thermal or Thermal Transfer Direct Thermal Only Ribbon Saver (S84-ex Only)

Print Mode

Dispense, Continuous

S84-ex

Print Resolution

203 dpi 305 dpi 609 dpi (12 dots/mm) (24 dots/mm) (8 dots/mm)

Print Speed

16 ips (406.4 mm/sec) (355.6 mm/sec) (152.4 mm/sec)

Print Area

Maximum Print Width

4.1" (104.0 mm)

Maximum Length

(2500.0 mm) (1500.0 mm) (400.0 mm)

S86-ex

Print Resolution

203 dpi (8 dots/mm) 305 dpi (12 dots/mm)

Print Speed

14 ips (355.6 mm/sec) 12 ips (304.8 mm/sec)

Print Area

Maximum Print Width 6.6" (167.5mm)

Maximum Print Length

49.2" (1249.0mm)

MEDIA SPECIFICATIONS

Sensor Type

Adjustable Transmissive Sensor for Gap, Adjustable Reflective Sensor for Black Mark, Paper End, Ribbon Near-end/End

Media Type

Die-cut Labels, Continuous Labels, Roll, 0.125" gap Media

Width

S84-ex 0.51" (13mm)-5.16" (131mm) S86-ex 2.13" (54mm)-7.09" (180mm) Minimum Length

Continuous Mode 0.36" (9mm) Dispense Mode 0.51" (13mm)

Thickness

0.002" (0.05mm) - 0.012" (0.31mm)

Ribbon

Width

S84-ex 0.98" (25mm) - 5.04" (128mm) S86-ex 2.32" (59mm) - 6.99" (177mm)

Length

1968.5 ft (600m) on 1" (25.4mm) ID Core

Face-in, Face-out, No setting Change required

SATO Genuine Consumables

For Maximum Print Quality and Optimum Use, SATO Recommends The Use of SATO Genuine Consumables

MEMORY & PROCESSING SPECIFICATIONS

Receive Buffer

2.95MB Memory

48MB ROM, 64MB RAM

USER FRIENDLY SUPPORT TOOLS

Large Status LED

Blue/Red

Status LCD

Normal/Orange

Alarm Sound

Beep (3 volume settings)

Self Diagnosis

Head Check Auto Sensor Calibration

Simple Standalone Mode

9 Formats

Emulations

LCD Selectable-SZPL、SDPL

Remote Setting

Web Browser

SATO All-In-One Printer Utilities

Drivers

Windows, Linux, SAP Smart Forms, Mac OS X

COMMUNICATION INTERFACES SPECIFICATIONS

Standard

USB2.0 (Type B) RS232C IEEE1284

Ethernet Protocol TCP/IP: LPR, FTP, TELNET, SNTP, SNMP Ver. 3, IPv4, IPv6

D-SUB 25pin EXT (14pin conversion cable included)

Optional Interface

Wireless LAN IEEE 802.11b/g/n Protocol TCP/IP: LPR, FTP, TELNET Security: WEP, WPA, WPA2, Dynamic WEP Bluetooth 2.0+EDR Class2 SPP

External Memory

USB Type A SD /SDHC Card

OPTIONS

W-LAN Kit Bluetooth Kit

UHF RFID Kit ISO18000-6 Type C (S84-ex Only)

FONT SPECIFICATIONS

Internal Fonts

U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A, OCR-B, Chinese (GB18030, Big5), Korean (KSX1001)

CG Times, CG Triumvirate $^{\text{TM}}$, SATO GAMMA, SATO VICA, Thai, Arabic

Downloadable fonts support

Bitmap, True Type (1byte/2byte), Maximum 11.7MB

BARCODE SYMBOLOGIES SPECIFICATIONS

Barcodes

Linear

Code 39, Code 93, Code 128, CODABAR (NW-7),EAN8/13, GS1 DataBar™, GS1-128 (UCC/EAN128),Interleaved 2/5, Industrial 2/5, JAN8/13, Matrix 2/5, MSI, Bookland, POSTNET™, UPC-A/E Intelligent Mail Barcode

2D Symbologies

PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code, Security QR, Composite Symbologies

OPERATING & ENVIRONMENT CHARACTERISTICS

Electrical Requirements

Universal Auto-ranging Power Supply, 100-240VAC +/-10%, 50/60Hz

Standards & Agency Approvals

IEC 60950, CE Marking ,EN 60950-1, EN 55022 Class A, EN 55024, R&TTE, NEMKO-GS ,cMETus, UL60950-1/CSA C22.2 No. 60950-1, FCC, ICES-003, NMB-003,RCM,CCC,SRRC, KC,

Environment

Operating

-5 to 40°C, 15-85% RH, Non Condensing

Storage

-20 to 60°C, 15-90% RH, Non Condensing

PHYSICAL CHARACTERISTICS

S84-ex

Dimensions

Width: 9.65" (245mm) Depth: 16.06" (408mm) Height: 11.81" (300mm)

Weight

Direct Thermal or Thermal Transfer Model: Direct Thermal Only Model: 27.1lbs (12.3kg)

S86-ex

Dimensions

Width: 9.65" (245mm) Depth: 18.23" (463mm) Height: 11.81" (300mm)

Weight

Direct Thermal or Thermal Transfer Model: 30.2lbs (15.1kg) Direct Thermal Only Model: 27.1lbs (13.6kg)

For more information, please visit scan QR code below



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Maximize productivity for 24/7 mission critical applications

SATO, Beyond Expectations

As a pioneer, SATO's flagship print engine pursues automatic print and apply machine's needs to expand its use in the world.



• S84-ex and S86-ex cover the needs of 4 inch or 6 inch printing applications. Direct Thermal Only Model and Ribbon Saver model (S84-ex O nly) also available..



- ▶ 2 Color LCD and LED
- The 2 color LCD and LED help operators easily understand the status of printers even though he works far from print and apply machines
- ► Face-in /Face-out Ribbon support
- No setting change required to use both face-in and face-out ribbons
- ▶ Auto Sensor Calibration Function
- No sensor level setting required.



Ease of Setting, Download and Upload

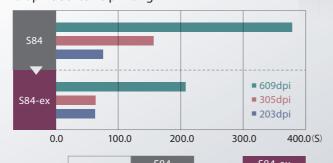
- Downloadable/Uploadable printer setting, font and firmware via SD / USB
- Allows customers to set up printers easily without software tools.
- Uploadable printer buffer data and operation log via SD / USB
- Helps analyze print operations and trouble shooting.
- ► Remote Printer Setting
- Web Browser
- SATO All-In-One Utilities



Fast Throughput and Print Speed

- ▶ S84/86-ex has best in class print speed (16 ips).
- ▶ New PCB increases first label print speed and overall throughput.

Graphic 50 items printing



	304		JUT CX	
609dpi	375.6	-167.4	208.2	
305dpi	156.7	-94.4	62.3	
203dpi	75.6	-14.2	61.4	(S)

Simple Standalone Mode

• Upgraded simple standalone mode provides independent operation via LCD.



- ▶ Ribbon Saver Model
- The ribbon saver function reduces the use of thermal transfer ribbon.

Connectivity

Increased connectivity supports both legacy and future host environment

- ► Standard Multiple Interfaces
- RS232C, IEEE1284, USB and LAN
- Optional Interfaces
- Wireless LAN IEEE 802.11 b/g/n Bluetooth
- ▶ D-SUB 25 pin External Signal Interface
- 14pin Conversion Cable included
- NPN/PNP Connection
- ▶ Network and Management (LAN)
- SNMP Ver. 3, IPv6 Support

Standard Emulations Onboard

- Support SZPL and SDPL
- ▶ LCD Selectable

Multiple Languages Support

- ▶ Unicode
- UTF8, UTF16 WGL4
- ▶ Built-in Asian Font Support
- Simplified Chinese Traditional Chinese Korean Thai Arabic
- ▶ TTF Download Function
- 1byte and 2 byte Max 11.7MB Capacity
- Multi Language LCD Menu
- 9 languages



Ease of Maintenance

▶ Print Head Replacement

 No tools required for print head replacement. Opening cable cover help to change from both front or side.







▶ Roller Replacement

 Locking slide cover allows for fast and easy replacement of rollers.



▶ Back Side Structure

 Convenient access to PCB, gears and power supply. The revised layout provides more room for easier maintenance to the backside.



Sensor Cover

 Non stick surface. prevents label jams and toolless design makes cover removal and clean easy.



Gear Box Design

 Universal gearbox supports all print resolution and reducing inventory and simplify the process.



▶ Strong against vibration and static

- Anti vibration and static design protect power supply and main hoards
- Allowing the print engine to tolerate harsh environment.

▶ Reinforced belt design

• The new belt and gear design reduce the belt wear and increase durability.