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

Print Speed

16 ips 14 ips 6 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

98.43" 15.75" (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

Width

Media

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 D-SUB 25pin EXT

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 *

(14pin conversion cable included)

External Memory

USB Type A SD /SDHC Card

OPTIONS

W-LAN Kit*

FONT SPECIFICATIONS

Internal Fonts

Bitmap

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

Scalable

CG Times, CG Triumvirate™, 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

-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: 30.2lbs (13.7kg) Direct Thermal Only Model: 27.1lbs (12.3kg)

S86-ex

Dimensions

Weight

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

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

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Version: October 2014

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www.satothailand.co.th

^{*} Please contact your local SATO office for availability

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 Only) 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.



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



Simple Standalone Mode

Environment Friendly

operation via LCD.

▶ Ribbon Saver Model

ribbon.

• Upgraded simple standalone mode provides independent

• The ribbon saver function reduces the use of thermal transfer

	307		30 T CX	
609dpi	375.6	-167.4	208.2	
305dpi	156.7	-94.4	62.3	
203dpi	75.6	-14.2	61.4	(S)

Ease of Setting, Download and Upload

- Downloadable and 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 troubleshooting.
- ► Remote Printer Setting
- Web Browser
- SATO All-In-One Utilities



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

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
- 7 languages





Ease of Maintenance

▶ Print Head Replacement

• No tools required for print head replacement. Opening cable cover helps 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 lavout 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.



Stable Operation

- Strong against vibration and static
- Anti vibration and static design protects power supply and
- Allows the print engine to tolerate harsh environment.

► Reinforced belt design

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