#### GENERAL SPECIFICATIONS | S84NX/S86NX

PR	INT SPECIFI	CATIONS
Print Method	1) Direct thermal/Thermal transfer, 2) Direct thermal only	
Print Mode	Dispense, Continuous, Dispense & Print	
Resolution	S84NX	203 dpi (8 dots/mm), 305 dpi (12 dots/mm), 609 dpi (24 dots/mm)
	S86NX	203 dpi (8 dots/mm), 305 dpi (12 dots/mm)
Speed	S84NX	16 ips (406.4 mm/sec), 14 ips (355.6 mm/sec), 6 ips (152.4 mm/sec)
	S86NX	14 ips (355.6 mm/sec), 12 ips (304.8 mm/sec)
Print Area	S84NX	4.1" (104.0 mm)
1) Maximum Width	S86NX	6.6" (167.5 mm)
Print Area 2) Maximum	S84NX	98.43" (2500.0 mm), 59.06" (1500.0 mm), 15.75" (400.0 mm)
Length	S86NX	98.43" (2500.0 mm), 59.06" (1500.0 mm)

ME	DIA SPECIFI	ICATIONS	
Sensor Type	Adjustable transmissive sensor for gap, Adjustable reflective sensor black mark, Paper end, Ribbon near-end/end		
Media Type	Roll (Die-cut, Continuous)		
Media	Width	S84NX	0.51" (13 mm) to 5.16" (131 mm)
		S86NX	2.13" (54 mm) to 7.09" (180 mm)
Minimum	Continuous mode	0.36" (9 mm)	
	length	Dispense mode	0.51" (13 mm)
	Thickness	0.002" (0.05 to 0.012" (0.	

	RIBBO	N		OPTION	15
	S84NX	0.98" (25 mm) to 5.04" (128 mm)	Accessories		IF RFID kit ISO18000
Width	S86NX	2.32" (59 mm) to 6.99" (177 mm)		FONT	5
Length	1968.5 ft (600 core	1 m) on 1" (25.4 mm) ID	Internal Fonts	SATO fonts, N support (47 la	TO fonts, 30 scalable Iulti-national languag nguages/Unicode), S yte fonts (Korean, Ch
Wind	Face-in/Face-out, no setting change required			Japanese)	
SATO Genuine Consumables		print quality and optimum commends the use of SATO umables.	BARCODE S	YMBOLOGIE	Code 39, Code 93 Code 128, Codaba (NW7), EAN8/13,
MEMORY &	2.95 MB	G SPECIFICATIONS		Linear	GS1-Databar™, GS 128 (UCC/EAN128 Interleaved 2/5,
Memory	Flash memory	r: (CPU1) 2 GB+ (CPU2) 4 MB 11) 256 MB+(CPU2) 64 MB	Barcodes		Industrial 2/5, JAN 8/13, Matrix 2/5, N Bookland, Postnet UPC-A/E
USER F Large Status LED	FRIENDLY SU	PPORT TOOLS		2D Symbologies	PDF417, MicroPDF MaxiCode, GS1 DataMatrix, QR Cc Micro QR Code, Composite symbol Aztec
Display Panel	3.5" full-color	LCD	OPERATING	& ENVIRONMEN	IT CHARACTERISTIC
Alarm Sound	Beep (4 volur	ne settings)	Electrical Requirements	Universal auto-ranging power supply 100-240 VAC+/-10%, 50/60 Hz	
Self Diagnosis Simple Stand-alone Mode	Via USB; the r	Auto sensor calibration number of printable label nds on USB memory size	Standards & Agency Approvals	Please contact approvals in ye	t SATO regarding ag our region.
Emulations	LCD selectab	le: SZPL, SDPL, SIPL		Operating	-5 to 40°C, 15-85% Non-condensing
Remote Setting	Web browser, utilities	SATO All-in-One printer	Environment	Storage	-20 to 60°C, 15-90 Non-condensing
Remote Maintenance	SOS (SATO C	nline Services), SNMPv3	PHYS	SICAL CHARA	CTERISTICS
antenalice	NUNICATION	I INTERFACES	S84NX	Dimensions	Width: 9.65" (245 Depth: 16.06" (408 Height: 11.81" (30
СОМИ		P) PS222C Ethonot		Weight	DT/TT: 31 lbs (14.1 DT only: 28 lbs (12
<b>COMI</b> Standard		/IP: LPR, FTP, SNMPv3,			
	(Protocol TCP	/IP: LPR, FTP, SNMPv3, HCPv4), External signal e		Dimensions	Width: 9.65" (245 Depth: 18.22" (463 Height: 11.81" (30



Powered **On Site** /

#### Versatile print engines, designed for demanding environments

# S84NX S86NX Print Engine Series



Product specifications are subject to change without notice. Any unauthorized reproduction of the contents of this leaflet, in part or whole, is strictly prohibited. QR Code is a registered trademark of Denso Wave Incorporated. The N-Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries. All other software, product or company names are trademarks or registered trademarks of their respective owners.

10.2022 C22\_0146\_v1 ©SATO HOLDINGS CORPORATION. All rights reserved.

N

RoHS

All information in this leaflet is accurate as of May 2022.

PDF









S84NX For high volume, 24/7 mission critical print and apply Print Engine Series labeling operations.

## **Feature overview**

#### 3.5-inch color I CD and dual-color LED indicators

Large color display for ease of operation. LED indicators help users quickly assess printing status and identify errors even from a distance.

#### Standard user interface

Users familiar with SATO's CLNX printers can operate the print engine in the same way. This allows for faster troubleshooting and less downtime when errors occur.

#### Built-in video tutorials

Instructional videos guide users to perform basic operations such as media loading, parts replacement and error resolution without wasting any time.

#### Smart print head

Usage of each print head can be tracked and monitored by its serial number via SOS (SATO Online Services) to enable timely replacement.

#### Versatile specifications to meet diverse needs

Left- or right-hand orientation; 4- or 6-inch print width; Direct thermal or thermal transfer printing; 203 dpi, 305 dpi or 609 dpi print resolution (for S84NX only)

#### RFID option (for S84NX only)

Users can use the print engine for printing and encoding UHF RFID labels/tags, configuring the necessary settings easily with SATO's All-In-One Tool (AIOT)\*. RFID is gaining popularity as it promises increased productivity among other benefits.

\*A printer management utility that allows users to seamlessly configure SATO printers across system-wide infrastructure



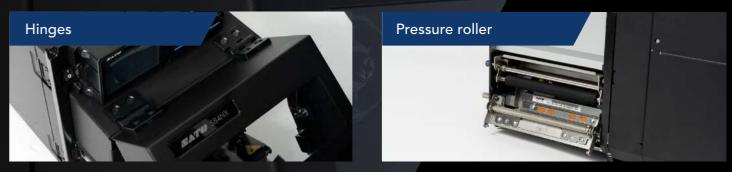
A ( MULINIAN 100 CLANX CLANX COM

ERTERATORIAE

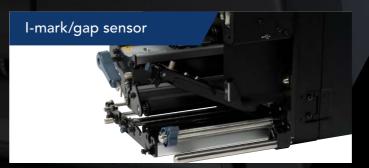


Robust construction to lower damage risks and prevent downtime

ATT SBAN



Larger hinges (when compared with legacy model) to provide extra strength for securing cover.



Sensor assembly enhanced to stay firmly in place even under heavy-duty use. Stronger, deformation-resistant sensor cover.

#### Improved dust and splash protection

Print engine can withstand use in dusty environments or where water may be splashed. (Note that product is not IP rated for dust or water resistance.)





New, durable roller assembly.



Print mechanism framed with aluminum extrusions (instead of welded plates) for added ruggedness.



## /Ease of maintenance

User-replaceable parts with easy-to-access layout for ultimate serviceability

# / Usability

#### Intuitive operation and ease of use to maximize productivity

#### Toolless print head replacement

No tools needed.

When replacing print head, users can open side panel to tuck away cables smoothly.



#### Easy roller replacement

Simply loosen one screw to remove roller. No need to unscrew all the way with the longer screws used. To allow easy identification, a different line marking is used for each type of roller shaft.





ressure Platen oller roller

#### Convenient access to rear components

Rear cage opens outward on both sides so that internal components such as mainboard, gearbox and power supply can be accessed in one go.



#### Improved gearbox design

Gearbox elements are integrated into an assembly unit to facilitate removal. The new design also makes it easier to assemble, disassemble and repair gearbox.

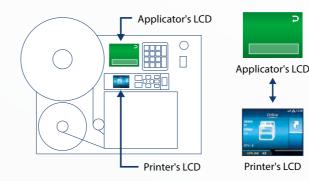


#### Standard emulations onboard

Support SZPL and other major printer languages, for seamless fit into existing systems.

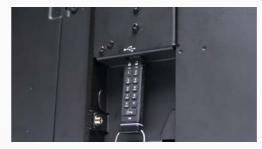
#### One display concept

Enable centralized control of print engine operations from the applicator's display with a new command.



#### Multiple interfaces

Connect easily to different external devices. USB port added to the side for greater ease of connectivity.

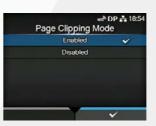




#### New settings to minimize interruptions during printing

### Enabling page clipping mode

Use this to clip off any remaining print data at label edge and continue printing without triggering errors.



#### Multi-national language support

Support 31 display and 47 print languages, to meet the needs of global workforces and businesses.

# Ioreer มหร Goesemaa รalam Sejahtera (กรี) สนั Xin Chào Halo Borjur tarda สวัสดี こんにちは ((\*) Torreet Hello Goede mate รองสนั Merhare (กรี)

#### Adjustable backfeed speed

Let users choose from multiple backfeed speed options, an enhancement from legacy model.





#### Customizable shortcut menu

Let users create custom shortcuts for quick access to operations they perform frequently.

Shortcut	
Counters	>
Build Version	>
Speed	6 ips
Darkness	6
Feed Speed	>

#### Disabling cover open sensor

Use this to keep the cover open during printing, without triggering errors.



## New value-add with SATO's game-changing technologies

AFP

**SATO** 

Application Enabled Printing

## Intelligence inside the printer for standalone printing

SATO AEP (Application Enabled Printing) is a powerful onboard intelligence that enables customization of printer operations to simplify labeling processes and reduce business costs.

#### Achieve PC-less printing

Print independently without costly computers or network connections by using data input from on-screen keyboard or via peripherals such as scanners and scales.



SOS SATO Online Services

Virtual customer engineer, right on site

SOS (SATO Online Services) is a cloud-based maintenance solution that keeps printer operations running and visible.





Video

-
BATH DAL
No. of Concession, Name
1 m
0.00

Customer

Video

#### Customize printer screen

Customize screen with company logo, helpdesk phone number, IP address, asset ID or other information based on user needs.







### Print directly from PLC

Use SATO AEP to easily integrate printer with devices such as programmable logic controller (PLC) for direct and more efficient printing. No need for special printer firmware or device customization. SATO AEP also supports customization of the external signal (EXT) interface.



Video

#### Streamline RFID printing and encoding

Upload log files automatically to user systems for traceability after printing and encoding RFID labels/tags.

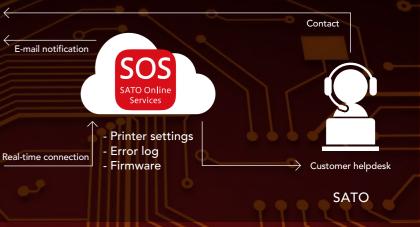


B Daily Checkup	
E Asset management	10
Add printer	1.5
Clone application	
E Dashboard	
() Logost	1
Term & condition	
Version 11.1.0	
4 D	8



#### Manage printers across multiple locations efficiently

View the status of all printers at a glance using the dashboard and easily adjust print speed, print darkness, print position or network settings remotely as needed. The dashboard can be accessed via SOS Web or on the go via SOS Smart App.



#### Enjoy preventative maintenance and quick troubleshooting

Use SOS to monitor cloud-connected printers 24/7 using their operating data. SOS sends notifications when expendable parts need replacement, and offers prompt and effective resolution to printer errors when they occur. This helps reduce unplanned downtime by as much as 86%\*.

\*Based on survey conducted by SATO in Japan.