

S84NX / S86NX Series

The most versatile thermal print engines yet









With improved flexibility, usability, connectivity and reliability, our flagship print engines are now equipped with next level SATO innovation, eclipsing all previous expectations.

Designed for the most demanding environments, the series is available in both 4" and 6", direct thermal/thermal transfer and direct thermal solutions. Ideal for printing **text data**, **barcodes**, **RFID tags** and **labels**. Its unrivalled versatility in performance is due to its excellent capabilities in emulation, PC-Less printing through Simple Stand Alone Mode or more complex AEP autonomous applications, alongside fast throughput and print speed.



Advanced intelligence

AEP

Application Enabled Printing can swiftly transform and simplify printing operations to reduce business costs. It enables the printer to be used without a PC by connecting to peripheral devices to easily print labels and tags, while maximising productivity by integrating with PLC's, eliminating the need for additional external devices, neither PCs, or any type of special software. It also features useable built-in memory for additional AEP software applications like AEP Utility and AEP Works.

EMULATION

Auto detection of major emulation languages enable seamless switching from SATO legacy models or other brands. These include:

- Standard SBPL and programmable AEP
 - SZPL SDPL SIPL
 - STCPL PDF Direct Printing

Improved Usability

BUILT-IN VIDEO

Users can understand how to operate the device in minutes by watching short videos on the printer's 3.5-inch colour display screen, significantly reducing the learning curve. In addition, users can add supplementary images and videos, making it fully customisable to their environment.

REGISTERED SHORTCUTS

Create custom shortcuts to limit access to select parameters only and prevent accidental changes to operations.

EASE OF MAINTENANCE

With no tools required, print head replacement is quick and easy, while a non-stick surface prevents labels from getting jammed. A universal gearbox – that supports all print resolutions – is also used to ensure it can be replaced quickly, while reducing inventory space and time.

High Reliability & Accuracy

RFID-READY

Providing supreme accuracy, SATO printers are designed with high-speed data rates and right-first time tagging capabilities to meet the needs of the most complex business environment.

SOS

By monitoring printers 24/7 via cloud, SATO Online Services enables proactive preventative maintenance and helps reduce downtime by up to 86%*.

*based on survey conducted by SATO in Japan

More Great Features

MULTIPLE INTERFACES

Support both legacy and future host environments with standard RS232C, USB, LAN and NFC interfaces, with network speeds up to 100Mbps. Optional interfaces include Wireless LAN (IEEE 802.11 ac standard) with WEP, WPA, and WPA2 security protocols.

ONE-DISPLAY

Users can take control of print engine operations easily with the built-in virtual display functionality that shows the display in any other device.



IMPROVED STABILITY

Larger hinges are now used to provide extra strength for securing the printer cover, alongside aluminium extrusions to replace the original welded plates for added robustness.

S84NX / S86NX Series

For high volume, 24/7 mission critical print and apply labeling operations.

Feature Overview

3.5-inch color LCD 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).



RFID option

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.



S84NX / S86NX Series



Robustness

Robust construction to lower damage risks and prevent downtime



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, deformationresistant sensor cover.



New, durable roller assembly.



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

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.)



Usability

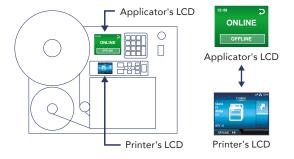
Intuitive operation and ease of use to maximize productivity

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.

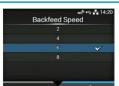
Multi-national language support

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

Adjustable backfeed speed

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





Shortcut Counters Build Version Speed Darkness Geod Speed S

Customizable shortcut menu

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

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.

Disabling cover open sensor

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



Ease of maintenance

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

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.







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

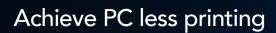
Gearbox elements are integrated into an assembly unit to facilitate removal. The new design also makes it easier to assemble, disassemble and repair gearbox.

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



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.



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



Customize printer screen

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





NATO

Online

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 programmable customization of the external signal (EXT) interface.



Streamline RFID printing and encoding

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







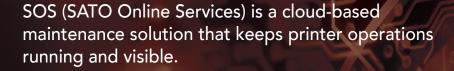




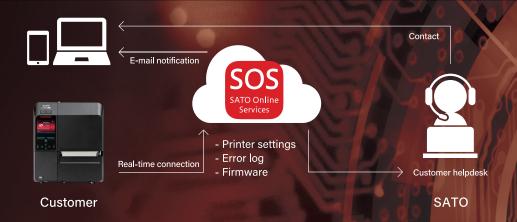


Virtual customer engineer, right on site

Video





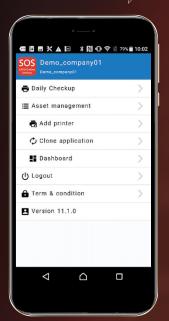


Enjoy preventative maintenance and quick troubleshooting

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.









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.

	G SPECIFI	CATION	S84NX			S86NX		
Printing Method			Direct Thermal and Thermal Transfer or Direct Thermal Only Model					
Print Reso			8 dots / mm (203 dpi)	12 dots / mm (305 dpi)	24 dots / mm (609 dpi)	8 dots / mm (203 dpi)	12 dots / mm (305 dpi	
Max. Print Speed		16 ips (406.4 mm/sec)	14 ips (355.6 mm/sec)	6 ips (152.4 mm/sec)	14 ips (355.6 mm/sec)	12 ips (304.8 mm/sec)		
Width mm (inch)		10 lps (400.4 mm/sec) 14 lps (355.0 mm/sec) 12 lps (152.4 mm/sec) 14 lps (355.0 mm/sec) 12 lps (104 mm (4.1") 167.5 mm (6.59")						
Max. Print Area		2500 (00 42//)		400 (4 5 75 ")				
Length mm (inch)		2500 mm (98.43")	1500 mm (59.06")	400 mm (15.75")	2500 mm (98.43")	1249 mm (49.17")		
Processor				Dual CPU & Dual OS: CPU1				
Printer Me	emory			CPU1: 2GB ROM	, 256MB RAM, CPU2: 4MB	ROM, 64MB RAM		
CONSUM	MABLES SF	PECIFICATION (Re	commended to use print	er supplies manufactured c	or certified by SATO)			
Sensor Ty	/pe		I-Ma	rk Sensor (Reflective), Label	Gap Sensor (Transmissive),	Paper-end, Ribbon near-en	d/end.	
Media Typ	pe		F	Roll or fan-fold die cut labels	, Plain paper face stock, Sy	nthetics and Continuous sto	ock	
Media Thi	ickness			0.0	05 ~ 0.31 mm (0.002" to 0.0	12")		
		Width	13 to 131mm (0.51" to 5.16") 54 to 180 mm (2.13" to 7.09")				(2.13" to 7.09")	
	Continuo		9 to 2503 mm	9 to 1503 mm	9 to 403 mm	9 to 2503 mm	9 to 1503 mm	
Label		Length	(0.35" to 98.54")	(0.35" to 59.17")	(0.35" to 15.87")	(0.24" to 98.54")	(0.35" to 59.17")	
Size	5.	Width	13 to 131 mm (0.51" to 5.16") 54 to 180		54 to 180 mm	(2.13" to 7.09")		
	Dispense	r Length	Thermal Transfer Model: 13 to 359 mm (0.51" to 14.13") / Direct Thermal Model: 18 to 359 mm (0.71" to 14.13")				(0.71" to 14.13")	
			450 m (1476.4 ft.) when width is less than 39.5 mm (1.56") 600 m (1968.5 ft.) when ribbon width is 59 mm					
	Length/Width		600 m (1968.5 ft.) when width is equal or more than 39.5 mm (1.56") (2.32") to 177mm (6.96")					
Ribbon	Roll diameter		108 mm (4.25")					
	Core		Core diameter: Ø 25.4 mm (1")					
	Wind dire	ection		Face-in/out, No Setting Change Required				
Ribbon ot	thers		Electronic Ribbon Tension Control System					
		OCIEC		2.5001		,		
FONTS /	SYMBOLO							
		Standard Bitmap		U, S, M, WB,	, WL, XU, XS, XM, XB, XL, C	OCR-A, OCR-B		
Internal Fonts		TTF Fonts	30 scalable SATO fonts, Multi-national language support (47 languages/Unicode),),	
			Single- and double-byte font support (Korean, Chinese, Japanese)					
		Encoding	Major Latin and Pan-European Code Pages (WGL4), GB18030 (simplified Chinese), BIG5 (traditional Chinese), KSX1001 (Korean),					
	3		Thai (CP874), Arabic, UTF-8 and UTF-16BE (downloaded fonts) Code 39 Code 93 Code 128 CODARAR (NIW7) FANR/13 GS1-DatabarTM GS1-128/LICC/FAN128) Interleaved 2/5 Industrial 2/5					
Barcode		Linear	Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-DatabarTM, GS1-128(UCC/EAN128), Interleaved 2/5, Industrial 2/5 JAN8/13, Matrix 2/5, MSI, Bookland, Postnet TM, Bookland, UPC-A/E Intelligent Mail Barcode					
			PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code, Security QR code, Aztec Code					
		2D Symbologies	,		and Composite Symbologic		.,,	
Print Dire	ection			Character data rotation: 0	°, 90°, 180°, 270° / Barcode	rotation: 0°, 90°, 180°, 270	0	
INTERFA	CE CHAR	ACTERISTICS AND	INTEGRATION					
		i						
		LICD	LISP 2 0 type	P / 2 v IISP 2 0 Tupo A /hor	ct) One in the front one in t	ha roar (Connect scanners	and kaybaards)	
		USB	USB 2.0 type	-B / 2 x USB 2.0 Type-A (hos			and keyboards)	
Standard	Interfaces	LAN	USB 2.0 type	Ethernet 10/100 Mbps	/ DHCP / Protocol: TCP/IP,	LPR, FTP, TELNET, SNTP	and keyboards)	
Standard	Interfaces	LAN RS232C		Ethernet 10/100 Mbps RS232	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R	LPR, FTP, TELNET, SNTP TS/CTS)	·	
Standard	Interfaces	LAN		Ethernet 10/100 Mbps	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R	LPR, FTP, TELNET, SNTP TS/CTS)	·	
		LAN RS232C EXT (I/O)	DSU	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, Wi	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/	LPR, FTP, TELNET, SNTP TS/CTS) idapter) Now also AEP Con g/n/ac Dual Band (2.4GHz,	trolled	
	Interfaces	LAN RS232C	DSU	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, Wi	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R ol 14 pin (female, optional a	LPR, FTP, TELNET, SNTP TS/CTS) idapter) Now also AEP Con g/n/ac Dual Band (2.4GHz,	trolled	
	Interfaces	LAN RS232C EXT (I/O)	DSU	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, Wi	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/	LPR, FTP, TELNET, SNTP TS/CTS) idapter) Now also AEP Con g/n/ac Dual Band (2.4GHz,	trolled	
Optional	Interfaces	LAN RS232C EXT (I/O) Wireless LAN USB	DSU Wire	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, Wi	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/ VPA, WPA2, Dynamic WEP, USB type-A (USB Host)	LPR, FTP, TELNET, SNTP TS/CTS) adapter) Now also AEP Con g/n/ac Dual Band (2.4GHz, DHCP Option 81.	trolled 5GHz),	
Optional	Interfaces Memory od printer p	LAN RS232C EXT (I/O) Wireless LAN USB	DSU Wire	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, WiFi Certified, WiFi WEP, Vices of the control	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/ VPA, WPA2, Dynamic WEP, USB type-A (USB Host)	LPR, FTP, TELNET, SNTP TS/CTS) Idapter) Now also AEP Con g/n/ac Dual Band (2.4GHz, DHCP Option 81.	trolled 5GHz),	
Optional External N Supported	Interfaces Memory od printer p	LAN RS232C EXT (I/O) Wireless LAN USB	DSU Wire	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, WiFi Security: WEP, Vice Security: WEP, Vice Security: WEP, Web Browser, SA	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/ VPA, WPA2, Dynamic WEP, USB type-A (USB Host) EP / Emulation Languages a	LPR, FTP, TELNET, SNTP TS/CTS) Idapter) Now also AEP Con g/n/ac Dual Band (2.4GHz, DHCP Option 81. Inuto detect: SZPL, SDPL, SII ies, SOS, SNMPv3	trolled 5GHz),	
Optional External N Supporter Remote S Drivers	Interfaces Memory d printer p Setting	LAN RS232C EXT (I/O) Wireless LAN USB protocols	DSU Wire	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, WiFi Security: WEP, Vice Security: WEP, Vice Security: WEP, Web Browser, SA	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/ VPA, WPA2, Dynamic WEP, USB type-A (USB Host) EP / Emulation Languages a ATO All-in-One Printer Utilit	LPR, FTP, TELNET, SNTP TS/CTS) Idapter) Now also AEP Con g/n/ac Dual Band (2.4GHz, DHCP Option 81. Inuto detect: SZPL, SDPL, SII ies, SOS, SNMPv3	trolled 5GHz),	
Optional I External N Supporter Remote S Drivers	Interfaces Memory d printer p Setting	LAN RS232C EXT (I/O) Wireless LAN USB protocols	DSU Wire	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, WiFi Certified, WiFi WEP, WEP, WEP, WEP, WEP, WEP, WEP, WEP,	/ DHCP / Protocol: TCP/IP, C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/ VPA, WPA2, Dynamic WEP, USB type-A (USB Host) EP / Emulation Languages a ATO All-in-One Printer Utilit	LPR, FTP, TELNET, SNTP TS/CTS) Idapter) Now also AEP Con g/n/ac Dual Band (2.4GHz, DHCP Option 81. Iuto detect: SZPL, SDPL, SII ies, SOS, SNMPv3 OS	trolled 5GHz),	
Optional I External I Supporter Remote S Drivers OPERATION	Interfaces Memory d printer p Setting ING CHAR equirement	LAN RS232C EXT (I/O) Wireless LAN USB protocols	DSU Wire Standard SATC	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, WiFi Security: WEP, Vife Security: WEP, Vife Browser, SA	/ DHCP / Protocol: TCP/IP, C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/ VPA, WPA2, Dynamic WEP, USB type-A (USB Host) EP / Emulation Languages a ATO All-in-One Printer Utilit Vindows, Linux, SAP, MAC	LPR, FTP, TELNET, SNTP TS/CTS) adapter) Now also AEP Con g/n/ac Dual Band (2.4GHz, DHCP Option 81. auto detect: SZPL, SDPL, SII ies, SOS, SNMPv3 DS	itrolled 5GHz), PL / Others: XML	
Optional I External N Supported Remote S Drivers	Interfaces Memory d printer p Setting ING CHAR equirement	LAN RS232C EXT (I/O) Wireless LAN USB protocols	DSU Wire Standard SATO W245mm (9.0	Ethernet 10/100 Mbps RS232 B 25 pin (female) / Amphenoless LAN, WiFi Certified, WiFi Certified, WiFi Security: WEP, WIFI Secur	/ DHCP / Protocol: TCP/IP, 2C Standard (XON/XOFF, R' ol 14 pin (female, optional a iFi Direct, IEEE 802.11 a/b/ VPA, WPA2, Dynamic WEP, USB type-A (USB Host) EP / Emulation Languages a ATO All-in-One Printer Utilit Vindows, Linux, SAP, MAC of	LPR, FTP, TELNET, SNTP TS/CTS) Idapter) Now also AEP Con g/n/ac Dual Band (2.4GHz, DHCP Option 81. Inuto detect: SZPL, SDPL, SII ies, SOS, SNMPv3 DS IC240V ± 10%, 50/60Hz W245 mm (9.65") x D417 mm	ntrolled 5GHz), PL / Others: XML	
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Za več informacij se obrnite na podjetje Markpro d.o.o., Celjska cesta 58, 3212 Vojnik

Telefon +386 8 205 80 30 E-poštni naslov info@markpro.si Spletna stran www.markpro.si



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