

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.

PRINTING SPECIFICATION			S84NX			S86NX	
Printing Method			Direct Thermal and Thermal Transfer or Direct Thermal Only Model				
Print Res			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)			104 mm (4.1") 167.5 mm (6.59")				
Max. Print Area		Length mm (inch)	2500 mm (98.43")	1500 mm (59.06")	400 mm (15.75")	2500 mm (98.43")	1249 mm (49.17")
Processor		Lerigar min (men)	2000 11111 (70.40)	Dual CPU & Dual OS: CPU1			
Printer M					, 256MB RAM, CPU2: 4MB		
						KOW, 04WB KAW	
		PECIFICATION (Re		er supplies manufactured o			
Sensor Ty				k Sensor (Reflective), Label			
Media Ty			R	oll or fan-fold die cut labels			ock
Media Th	nickness		0.05 ~ 0.31 mm (0.002" to 0.012") 13 to 131mm (0.51" to 5.16") 54 to 180 mm (2.13" to 7.0				
Label Size	Continuo	Width		13 to 131mm (0.51" to 5.16			
	Continue	Length	9 to 2503 mm (0.35" to 98.54")	9 to 1503 mm (0.35" to 59.17")	9 to 403 mm (0.35" to 15.87")	9 to 2503 mm (0.24" to 98.54")	9 to 1503 mm (0.35" to 59.17")
		Width		13 to 131 mm (0.51" to 5.16") 54 to 180 mm (2.13" to			
	Dispense	er 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")				
	201.941		Width: 25mm to 128 mm (0.98" to 5.04")				
Ribbon	Length/Width		Length: 450 m (1476.4 ft.) when width is less than 39.5 mm (1.56") 600 m (1968.5 ft.) when width is equal or more than 39.5 mm (1.55") Width: 59 mm to 177 mm (2.32" to 6.97") Length: 600 m (1968.5 ft.)				
	Roll diameter		108 mm (4.25")				
	Core		Core diameter: Ø 25.4 mm (1")				
	Wind direction		Face-in/out, No Setting Change Required				
Ribbon o			Electronic Ribbon Tension Control System				
	SYMBOL	OGIES		Licetio	The state of the s	.,,	
FONTS /	STIMIBOL			II C M MD	WILVE VM VD VI C	OCD A OCD D	
Internal Fonts		Standard Bitmap TTF Fonts	U, S, M, WB, WL, XU, XS, XM, XB, XL, OCR-A, OCR-B 30 scalable SATO fonts, Multi-national language support (47 languages/Unicode),				
		111 1 01113	Single- and double-byte font support (Korean, Chinese, Japanese)				
		Encoding	Major Latin and Pan-European Code Pages (WGL4), GB18030 (simplified Chines Thai (CP874), Arabic, UTF-8 and UTF-16BE (do				nese), KSX1001 (Korean),
Barcode		Linear	Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-DatabarTM, GS1-128(UCC/EAN128), Interleaved 2/5, Industrial 2/JAN8/13, Matrix 2/5, MSI, Bookland, Postnet TM, Bookland, UPC-A/E Intelligent Mail Barcode				
		2D Symbologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code, Security QR code, Aztec Code and Composite Symbologies				e, Aztec Code
Print Direction			Character data rotation: 0°, 90°, 180°, 270° / Barcode rotation: 0°, 90°, 180°, 270°				
INTERFA	CE CHAR	ACTERISTICS AND	INTEGRATION				
		USB		.B / 2 x USB 2 0 Type-∆ (hos	et) One in the front one in t	he rear (Connect scanners	and keyboards)
Standard Interfaces LAN RS232C EXT (I/C)			USB 2.0 type-B / 2 x USB 2.0 Type-A (host) One in the front, one in the rear (Connect scanners and keyboar Ethernet 10/100 Mbps / DHCP / Protocol: TCP/IP, LPR, FTP, TELNET, SNTP			and Reyboards,	
			RS232C Standard (XON/XOFF, RTS/CTS)				
			DSUB 25 pin (female) / Amphenol 14 pin (female, optional adapter) Now also AEP Controlled				
		EXT (I/O)					
Optional Interfaces Wireless LAN		Wireless LAN, WiFi Certified, WiFi Direct, IEEE 802.11 a/b/g/n/ac Dual Band (2.4GHz, 5GHz), Security: WEP, WPA, WPA2, Dynamic WEP, DHCP Option 81.					
External Memory USB		USB	USB type-A (USB Host)				
Supported printer protocols			Standard SATO: SBPL and programable AEP / Emulation Languages auto detect: SZPL, SDPL, SIPL / Others: XML				
Remote Setting			Web Browser, SATO All-in-One Printer Utilities, SOS, SNMPv3				
Drivers			Windows, Linux, SAP, MAC OS				
OPERAT	ING CHAE	RACTERISTICS					
				Universal Auto-ranging	Power Supply AC 100V A	C240V ± 10% 50/60Hz	
Power Requirement			Universal Auto-ranging Power Supply, AC 10 W245mm (9.65") x D408mm (16.06") x H300mm (11.81")			W245 mm (9.65") x D417 mm (16.42") x H300 mm(11.81	
Weight			Therr	nal Transfer Model: 14.1 kg	(31 lbs)	Thermal Transfer Mode	l 15.5 kg (34.1 lbs) Direc
Environment		Operating	Dire	Direct Thermal Model: 12.7 kg (28 lbs) -5° to 40 °C / 15 – 85 % RH (without co			: 14.0 kg (30,8 lbs)
Liviloninent		Storage	-20 to 60 $^{\circ}$ C / 15 – 90 $^{\circ}$ RH (without condensation)				
Display Panel		LCD 3,5 full color display, 9 buttons control keys, Sound beep (4 volume settings), two color LED lighting bars					
MIȘCELI	LANEOUS						
Standards & Agency Approvals			EN 62368-1, CE Marking, NEMKO-GS, cMETus, UL60950-1, CSA C22.2, FCC, ICES-003, NMB-003, RCM, CCC, SRRC, KC, ROHS compliant				
Functions – Useful features			Simple Standalone Mode, Multi Language support LCD message (31 Languages), USB Memory, clone functionality and firmware updates, Status return, Micro Label Printing, User guidance videos in display, Custom videos, Energy saving,				
Functions C. If D: Cl I.		SOS (SATO Online-services), Direct PDF printing, SOTI and SAS.					
Functions – Self Diagnosis Checking			Thermal head check, Ribbon end detection, Test print, Head Lift detection, Auto Sensor Calibration				
RFID			For	more information about qua	alified RFID labels / inlay co	mbinations please contact	SATO
OPTION	S (EUROP	E ONLY)					
			WLAN Kit, RFII	D: UHF RFID \$84-ex Dual an	ntenna and S86-ex single an	tenna configuration; Standa	ard: ISO 18000-6
Accessor	ries			Type C. Frequency	y: 868 - 960Mhz, Protocols:	EPC Gen 2 Class 1	



















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