

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					Thermal Transfer or Direct		•	
Print Resolution		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. Prir	nt 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		2011941111111 (111611)	2000 (701.10)			PU2: 800MHz for ITRON OS		
Printer M					, 256MB RAM, CPU2: 4MB			
						KOW, OTWID KAW		
		PECIFICATION (Re		er supplies manufactured c				
Sensor Type		I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive), Paper-end, Ribbon near-end/end.						
Media Ty			R	coll or fan-fold die cut labels			ock	
Media Thickness		0.05 ~ 0.31 mm (0.002" to 0.012")						
Label Size	C:	Width		13 to 131mm (0.51" to 5.16			(2.13" to 7.09")	
	Continu	ous 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				
	Dispens	er	13 to 131 mm (0.51" to 5.16") 54 to 180 mm (2.13" to 7.09") Thermal Transfer Model: 13 to 359 mm (0.51" to 14.13") / Direct Thermal Model: 18 to 359 mm (0.71" to 14.13")					
	Length		Width: 25mm to 128 mm (0.98" to 5.04")					
Ribbon	Length/Width		Width: 25mm to 128 mm (0.98 * to 5.04 *) 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 c	others		Electronic Ribbon Tension Control System					
		OCIEC		2.000.0				
FONTS /	SYMBOL							
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),					
		Encoding	Major Latin and Pan-E	Single- and double-byte font support (Korean, Chinese, Japanese) atin and Pan-European Code Pages (WGL4), GB18030 (simplified Chinese), BIG5 (traditional Chinese), KSX1001 (Korean),				
		Linear	Thai (CP874), Arabic, UTF-8 and UTF-16BE (downloaded fonts) Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-DatabarTM, GS1-128(UCC/EAN128), Interleaved 2/5, Industrial 2/					
Barcode		2D Symbologies	JAN8/13, Matrix 2/5, MSI, Bookland, Postnet TM, Bookland, UPC-A/I PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code			QR Code, Security QR cod		
Print Direction		25 Symbologics	and Composite Symbologies Character data rotation: 0°, 90°, 180°, 270° / Barcode rotation: 0°, 90°, 180°, 270°					
INTERF#	CE CHAP	RACTERISTICS AND	INTEGRATION					
	102 017.11	USB		-B / 2 v LISB 2 0 Type-A (hos	st) One in the front one in t	the rear (Connect scanners	and keyboards)	
Standard Interfaces		LAN	USB 2.0 type-B / 2 x USB 2.0 Type-A (host) One in the front, one in the rear (Connect scanners and keyboards) Ethernet 10/100 Mbps / DHCP / Protocol: TCP/IP, LPR, FTP, TELNET, SNTP				and Reyboards)	
		S	·					
		RS232C	RS232C Standard (XON/XOFF, RTS/CTS)					
		EXT (I/O)	DSUB 25 pin (female) / Amphenol 14 pin (female, optional adapter) Now also AEP Controlled					
Optional Interfaces Wireless LAN		s 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 type-A (USB Host)					
Supported printer protocols		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 CHA	RACTERISTICS						
				Universal Auto ranging	g Power Supply AC 100V A	C240V + 10% 50/60U-		
Power Requirements Dimensions		113	Universal Auto-ranging Power Supply, AC 100V AC240V ± 10%, 50/60Hz W245mm (9.65") x D408mm (16.06") x H300mm (11.81")				n (16.42") v H200 mm/11.01	
Weight			Ther	mal Transfer Model: 14.1 kg ect Thermal Model: 12.7 kg	(31 lbs)	Thermal Transfer Mode	m (16.42") x H300 mm(11.8 l 15.5 kg (34.1 lbs) Dired : 14.0 kg (30,8 lbs)	
Environment		Operating	-5° to 40 °C / 15 – 85 % RH (without co		ondensation)	. 1 NO NG (30,0 105)		
		Storage	-20 to 60 °C / 15 – 90 % 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					
MISCELI	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 – Self Diagnosis Checking RFID		agnosis Checking	SOS (SATO Online-services), Direct PDF printing, SOTI and SAS. Thermal head check, Ribbon and detection, Test print, Head Lift detection, Auto Sensor Calibration.					
		agnosis checking	Thermal head check, Ribbon end detection, Test print, Head Lift detection, Auto Sensor Calibration For more information about qualified RFID labels / inlay combinations please contact SATO					
KLID			For	more information about qu	alified KFID labels / inlay co	mpinations please contact	SAIU	
	S (EUROF	PE ONLY)						
OPTION	3 (E31.3)	<u> </u>						
			WLAN Kit, RFII	D: UHF RFID S84NX Dual ar			ard: ISO 18000-6	
OPTION Accessor			WLAN Kit, RFII		ntenna and S86NX single ar y: 868 – 960Mhz, Protocols		ard: ISO 18000-6	



















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