

NATE S84NX

REID

# Seeing is believing

NATO S86NX

S84NX / S86NX Series

The most versatile thermal print engines yet

satoeurope.com

MILLING SALASA SALASA

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.

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PRINTIN	IG SPECIF	ICATION		S84NX		580	5NX
Printing Method			Direct Thermal and Thermal Transfer or Direct Thermal Only Model				
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. 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)	
Max. Print Area Width mm (inch)		2500 mm (98.43")	104 mm (4.1") 1500 mm (59.06")	400 mm (15.75″)	167.5 mi 2500 mm (98.43″)	m (6.59″) 1249 mm (49.17″)	
Length mm (inch) Processor		2300 mm (70.43 )					
Printer Memory			Dual CPU & Dual OS: CPU1: 800MHz for Linux OS, CPU2: 800MHz for ITRON OS CPU1: 2GB ROM, 256MB RAM, CPU2: 4MB ROM, 64MB RAM				
		PECIFICATION (Re	· · · · · · · · · · · · · · · · · · ·	er supplies manufactured o			17 1
Sensor Type			I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive), Paper-end, Ribbon near-end/end.				
Media Type Media Thickness		Roll or fan-fold die cut labels, Plain paper face stock, Synthetics and Continuous stock 0.05 ~ 0.31 mm (0.002″ to 0.012″)					
		Width	13 to 131mm (0.51" to 5.16") 54 to 180 mm (2.13" to 7.09")				
Label Size	Continu	ous	9 to 2503 mm	9 to 1503 mm	9 to 403 mm	9 to 2503 mm	9 to 1503 mm
		Length Width	(0.35" to 98.54")	(0.35" to 59.17") 13 to 131 mm (0.51" to 5.16	(0.35" to 15.87")	(0.24" to 98.54")	(0.35" to 59.17") (2.13" to 7.09")
	Dispens	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") 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") Width: 59 mm to 177 mm (2.32" to 6.97")   600 m (1968.5 ft.) when width is equal or more than 39.5 mm (1.55") Length: 600 m (1968.5 ft.)				
	Roll diameter		108 mm (4.25″)				
	Core		Core diameter: Ø 25.4 mm (1″)				
Wind dir		rection	Face-in/out, No Setting Change Required				
Ribbon others			Electronic Ribbon Tension Control System				
FONTS /	SYMBOL	OGIES					
Standard Bitmap			U, S, M, WB, WL, XU, XS, XM, XB, XL, OCR-A, OCR-B				
Internal Fonts			30 scalable SATO fonts, Multi-national language support (47 languages/Unicode),				
		TTF Fonts	Single- and double-byte font support (Korean, Chinese, Japanese) Major Latin and Pan-European Code Pages (WGL4), GB18030 (simplified Chinese), BIG5 (traditional Chinese), KSX1001 (Korean),				
		Encoding	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 2		Linear	JAN8/13, Matrix 2/5, MSI, Bookland, Postnet TM, Bookland, UPC-A/E Intelligent Mail Barco			arcode	
		2D Symbologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code, Security QR code, Aztec Code and Composite Symbologies				
Print Dire				Character data rotation: 0	°, 90°, 180°, 270° / Barcode	rotation: 0°, 90°, 180°, 270	
INTERFA	ACE CHAR	ACTERISTICS AND	INTEGRATION				
Standard Interfaces		USB	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)				
		LAN s	Ethernet 10/100 Mbps / DHCP / Protocol: TCP/IP, LPR, FTP, TELNET, SNTP				
		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	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.				5GHz),
External Memory 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 CHA	RACTERISTICS					
Power Requirements				Universal Auto-ranging	g Power Supply, AC 100V A	C240V ± 10%, 50/60Hz	
Dimensions			W245mm (9.6	5") x D408mm (16.06") x H	300mm (11.81")	W245 mm (9.65") x D417 mr	n (16.42″) x H300 mm(11.81″)
Weight				nal Transfer Model: 14.1 kg ct Thermal Model: 12.7 kg			l 15.5 kg (34.1 lbs) Direct 14.0 kg (30,8 lbs)
Environment		Operating	-5° to 40 °C / 15 – 85 % RH (without condens			ondensation)	
Display Panel		Storage	-20 to 60 °C / 15 – 90 % RH (without condensation) LCD 3,5 full color display, 9 buttons control keys, Sound beep (4 volume settings), two color LED lighting bars				
1 2	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			SOS (SATO Online-services), Direct PDF printing, SOTI and SAS. Thermal head check, Ribbon end detection, Test print, Head Lift detection, Auto Sensor Calibration				
RFID		For more information about qualified RFID labels / inlay combinations please contact SATO					
OPTIONS (EUROPE ONLY)							
Accessories			WLAN Kit, RFID: UHF RFID S84NX Dual antenna and S86NX single antenna configuration; Standard: ISO 18000-6				
			Type C, Frequency: 868 – 960Mhz, Protocols: EPC Gen 2 Class 1				
						All information in this loaflat	









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