

S84/86 **NX**



Intelligence • Reliability • Versatility



INTELLIGENCE

- Pre-installed auto-switch competitive printer language emulations
- Full color 3.5" LCD display with intuitive menu and easy navigation
- On-board instructional videos for training and maintenance



RELIABILITY

- Tool-free maintenance for print head and front-access roller replacement
- Reinforced aluminum construction print head mechanism and larger hinges for strength and durability
- Remote management with SATO Online Services (SOS)

VERSATILITY

- Application Enabled Printing (AEP) allowing PC-free operation with interactive controls and interface
- Shortcuts provide user defined quick access to frequently performed operations
- UHF RFID (S84NX only) option for writing, reading, and verifying tags prior to printing



GENERAL SPECIFICATIONS / S84NX - S86NX

PRODUCT SPECIFICATIONS			S84NX			S86NX		
Print Resolution			203dpi (8 dots/mm)	305dpi (12 dots/mm)	609dpi (24 dots/mm)	203dpi (8 dots/mm)		305dpi (12 dots/mm)
Print Speed			16ips (406.4mm/sec)	14ips (355.6mm/sec)	6ips (15.4 2mm/sec)	14ips (355.6mm/sec)		12ips (304.8mm/sec)
Print Area	Max Width		4.1" (104mm)			6.6" (167.5mm)		
	Max Length		98.43" (2500mm)	59.06" (1500mm)	15.75" (400mm)	98.43" (2500mm)		59.06" (1500mm)
Media Size (with liner)	Continuous	Width	0.51" to 5.16" (13 to 131mm)			2.13" to 7.09" (54 to 180mm)		
		Length	0.35" to 98.54" (9 to 2503mm)	0.35" to 59.17" (9 to 1503mm)	0.35" to 15.87" (9 to 403mm)	0.24" to 98.54" (9 to 2503mm)		0.35" to 59.17" (9 to 1503mm)
	Dispense	Width	0.51" to 5.16" (13 to 131mm)			2.13" to 7.09" (54 to 180mm)		
		Length	Thermal Transfer Model: 0.51" to 14.13" (13 to 359mm) Direct Thermal Model: 0.71" to 14.13" (18 to 359mm)					
Ribbon	Length / width		1476.4ft. (450m) when width is less than 1.56" (39.5mm) 1968.5 ft. (600m) when width is equal or more than 1.55" (39.5mm)			1968.5 ft. (600m) when ribbon width is 2.32" (59mm) to 6.96" (177mm)		
	Roll diameter		4.25" (108mm)					
	Core		Core diameter: Ø 1" (25.4mm)					
	Wind direction		Face-in/out, No Setting Change Required					
	Ribbon Tension		Clutch-Free Electronic Control System					
Dimensions			W 9.65" (245mm) x D 16.06" (408mm) x H 11.81" (300mm)			W 9.65" (245 mm) x D 16.42" (417mm) x H 11.81" (300mm)		
Weight			Thermal Transfer Model: 31lbs (14.1kg) Direct Thermal Model: 28lbs (12.7kg)			Thermal Transfer Model: 34lbs (15.5kg) Direct Thermal Model: 30.8lbs (14.0kg)		

PRINTING SPECIFICATIONS

Method	Direct Thermal / Thermal Transfer or Direct Thermal Only
Mode	Continuous, Dispense

MEDIA SPECIFICATIONS

Sensor Type	Top Sensor, Adjustable Transmissive Sensor for Gap, Adjustable Reflective Sensor for Black Mark, Paper Out, Ribbon Near-End/Out, Label Near-End
Media Type	Die Cut Labels, Paper or Synthetic Stock
Media	
Thickness (Label & Liner)	0.002" to 0.012" (0.05 - 0.31mm)
Wind	Face-in / Face-out. No Setting Change Required
SATO Genuine Consumables	For maximum print quality and optimum use, SATO recommends the use of SATO genuine consumables.

CONNECTIVITY

Standard	2x USB 2.0 Type-A (host) Front and Rear, Ethernet 10/100 Mbps / DHCP / Protocol: TCP/IP, LPR, FTP, TELNET, SNMP, RS232C Standard (XON/XOFF,RTS/CTS), DSUB25 pin (female)
Optional Wireless LAN Kit (Internal)	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.

OPTIONS

WLAN Kit (specifics above), RFID Kit (S84NX Only), UHF (920MHz), ISO/IEC 18000-6 Type C Gen 2 For more information about qualified RFID inlays and labels please contact SATO.

MEMORY & PROCESSING

Dual CPU	CPU1: 2 GB Flash, 256MB RAM CPU2: 4 MB Flash, 64MB RAM User Registration Area 576MB Receive Buffer 2.95MB
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USER-FRIENDLY SUPPORT TOOLS

Display Panel	3.5" Full-Color LCD 9 buttons control keys
Status LCD	Blue / Red
Audible Alerts	Sound beep (4 volume settings)
Emulation	Auto Detect - SBPL®, SZPL®, SIPL®, SDPL®, (pre-installed), XML, AEP
Rotation	Character data rotation: 0°, 90°, 180°, 270° / Barcode rotation: 0°, 90°, 180°, 270°
Self Diagnosis	Thermal head check, Ribbon end detection, Test print, Head Lift detection, Auto Sensor Calibration
Remote Settings / Maintenance	Web Browser, SATO All-in-One Printer Utilities, SOS, SNMPv3
Additional Functions	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, SOS (SATO Online-services), Direct PDF printing, RTC- (Real-time Clock)
Drivers	Windows, Linux, SAP, MAC OS

FONT SPECIFICATIONS

Internal Fonts	7 bitmap SATO fonts, 30 scalable SATO fonts, Multi-national language support (47 languages/Unicode), Single and double byte fonts (Korean, Chinese, Japanese)
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BARCODE SYMBOLOGIES SPECIFICATIONS

Barcodes	
Linear	Code 39, Code 93, Code 128, CODABAR (NW-7), EAN 8/13, GS1 DataBarTM, GS1-128 (UCC/EAN 128), Interleaved 2/5, Industrial 2/5, JAN 8/13, Matrix 2/5, MSI, Bookland, POSTNETTM, UPC-A/E Intelligent Mail Barcode
2D Symbolologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code, Security QR, Composite Symbolologies, Aztec

OPERATING CHARACTERISTICS

Electrical Requirements	Universal Auto-ranging Power Supply, 100-240VAC +/- 10%, 50/60Hz
Standards & Agency Approvals	IEC 60950, CE Marking, NEMKO-GS, cMETus, UL60950-1, CSA C22.2, EN 60950-1, FCC, ICES-003, NMB-003, RCM, CCC, SRRC, KC, ROHS compliant

Environment	
Operating	23° - 104° F (-5° to 40 °C) / 15 – 85% RH (without condensation)
Storage	-4° - 140° F (-20° to 60 °C) / 15 – 90 % RH (without condensation)

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