

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			MEMORY & PROCESSING			FONT SPECIFICATIONS		
Method			Dual CPU			Internal Fonts		
Direct Thermal / Thermal Transfer or Direct Thermal Only			CPU1: 2 GB Flash, 256MB RAM CPU2: 4 MB Flash, 64MB RAM User Registration Area 576MB Receive Buffer 2.95MB			7 bitmap SATO fonts, 30 scalable SATO fonts, Multi-national language support (47 languages/Unicode), Single and double byte fonts (Korean, Chinese, Japanese)		
Mode								
Continuous, Dispense								
MEDIA SPECIFICATIONS			USER FRIENDLY SUPPORT TOOLS			BARCODE SYBLOGIES SPECIFICATIONS		
Sensor Type			Display Panel			Barcodes		
Top Sensor, Adjustable Transmissive Sensor for Gap, Adjustable Reflective Sensor for Black Mark, Paper Out, Ribbon Near-End/Out, Label Near-End			3.5" Full Color LCD 9 buttons control keys			Linear		
Media Type			Status LCD			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		
Die Cut Labels, Paper or Synthetic Stock			Audible Alerts			2D Sybologies		
Media			Sound beep (4 volume settings)			PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code, Security QR, Composite Sybologies, Aztec		
Thickness (Label & Liner)			Emulation					
0.002" to 0.012" (0.05 - 0.31mm)			Auto Detect - SBPL®, SZPL®, SIPL®, SDPL®, (pre-installed), XML, AEP					
Wind			Rotation					
Face-in / Face-out. No Setting Change Required			Character data rotation: 0°, 90°, 180°, 270° / Barcode rotation: 0°, 90°, 180°, 270°					
SATO Genuine Consumables			Self Diagnosis					
For maximum print quality and optimum use, SATO recommends the use of SATO genuine consumables.			Thermal head check, Ribbon end detection, Test print, Head Lift detection, Auto Sensor Calibration					
CONNECTIVITY			Remote Settings / Maintenance			OPERATING CHARACTERISTICS		
Standard			Web Browser, SATO All-in-One Printer Utilities, SOS, SNMPv3			Electrical Requirements		
2x USB 2.0 Type-A (host) Front and Rear, Ethernet 10/100 Mbps / DHCP / Protocol: TCP/IP, LPR, FTP, TELNET, SNTP, RS232C Standard (XON/XOFF,RTS/CTS), DSUB25 pin (female)			Additional Functions			Universal Auto-ranging Power Supply, 100-240VAC +/- 10%, 50/60Hz		
Optional Wireless LAN Kit (Internal)			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			Standards & Agency Approvals		
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.			Drivers			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		
OPTIONS			Windows, Linux, SAP, MAC OS			Environment		
WLAN Kit (specifcs 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.						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)		