SATO
Powered **On Site** /

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

www.satoamerica.com/S84-S86NX

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)	
	Continuous — 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)	
	Dispense — 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, SNTP, 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

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)

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 Symbologies
PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code, Security QR, Composite Symbologies, 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)