

# 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		
<b>Print Resolution</b>		203dpi (8 dots/mm)	305dpi (12 dots/mm)	609dpi (24 dots/mm)	203dpi (8 dots/mm)	305dpi (12 dots/mm)	
<b>Print Speed</b>		16ips (406.4mm/sec)	14ips (355.6mm/sec)	6ips (15.4 2mm/sec)	14ips (355.6mm/sec)	12ips (304.8mm/sec)	
<b>Print Area</b>	<b>Max Width</b>	4.1" (104mm)			6.6" (167.5mm)		
	<b>Max Length</b>	98.43" (2500mm)	59.06" (1500mm)	15.75" (400mm)	98.43" (2500mm)	59.06" (1500mm)	
<b>Media Size (with liner)</b>	<b>Continuous</b>	<b>Width</b>	0.51" to 5.16" (13 to 131mm)			2.13" to 7.09" (54 to 180mm)	
		<b>Length</b>	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)
	<b>Dispense</b>	<b>Width</b>	0.51" to 5.16" (13 to 131mm)			2.13" to 7.09" (54 to 180mm)	
		<b>Length</b>	Thermal Transfer Model: 0.51" to 14.13" (13 to 359mm) Direct Thermal Model: 0.71" to 14.13" (18 to 359mm)				
<b>Ribbon</b>	<b>Length / width</b>	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)		
	<b>Roll diameter</b>	4.25" (108mm)					
	<b>Core</b>	Core diameter: Ø 1" (25.4mm)					
	<b>Wind direction</b>	Face-in/out, No Setting Change Required					
	<b>Ribbon Tension</b>	Clutch Free Electronic Control System					
<b>Dimensions</b>		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)		
<b>Weight</b>		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

### 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 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)

**SATO AMERICA CORPORATE** 14125 South Bridge Circle  
Charlotte, NC 28273

Phone: (704) 644-1650  
sales-sallc@sato-global.com

**LABEL MANUFACTURING, SERVICE & SALES**  
UNITED STATES MEXICO CENTRAL AMERICA  
CANADA CARIBBEAN

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