



CL4NX

CL6NX

NX Series *Beyond Expectations*

NEXT GENERATION 4" & 6" INDUSTRIAL THERMAL PRINTERS

The NX Series represents SATO's next generation of thermal printers with advanced support for barcode symbologies, character sets and RFID encoding (CL4NX only).

As a product of SATO's global R&D network, the NX Series incorporates value-added features in a world-class design to deliver a printing solution that goes beyond expectations.

Simple-to-Operate Plug-and-Play All-in-One

The NX Series is developed for a wide range of applications and features:

- **Dynamic Integration**
 - Complete communications interface
 - Robust printing command emulations
- **Intuitive Operation**
 - Color LCD with enhanced GUI
 - Ergonomic media system for easy setup
- **Accurate and Efficient Performance**
 - High speed data processing at 10 ips
 - Head check function for print accuracy
- **Functional Form**
 - Cover design conserves work space
 - Tool-less print head and platen roller
- **Sustainable Innovation**
 - Energy Star certified product
 - Coreless ribbon system reduces waste
- **Industrial Durability**
 - Metal casing protects against damage
 - Die-cast frame and parts for superior strength

ENVIRONMENTAL ASSURANCE



Standard

Hazardous
Substance
Free



Standard

Energy
Efficient



Optional

Reduced
Carbon
Footprint



Product Specifications / NX Series

Printer Model	CL4NX	CL6NX
Print Resolution	203 dpi(8 dots/mm),305 dpi(12 dots/mm),609 dpi(24 dots/mm)	203 dpi (8 dots/mm), 305 dpi (12 dots/mm)
Print Speed	10 ips (254 mm/s), 8 ips (203 mm/s), 6 ips (152 mm/s)	10 ips (254 mm/s), 8 ips (203 mm/s)
Print Area Max Width Max Length	4.1" (104.0 mm) 98.43" (2500 mm), 59.06" (1500 mm), 15.75" (400 mm)	6.5" (167.5 mm) 98.43" (2500 mm), 59.06" (1500 mm)
Media Width	0.98" (25 mm) ~ 5.15" (131 mm)	1.96" (50 mm) ~ 7" (180 mm)
Ribbon Width	1.55" (39.5 mm) ~ 5.03" (128 mm)	2.322 (59 mm) ~ 6.96" (177 mm)
Options	Cutter, Dispenser, Dispenser with Rewinder, Linerless Cutter RTC, WLAN, UHF RFID, HF RFID	Cutter, Dispenser, Dispenser with Rewinder RTC, WLAN
Dimensions	D:17.99" (457 mm) W: 10.66" (271 mm) H: 12.63" (321mm)	D:17.99" (457mm) W:13.30" (338mm) H:12.63" (321 mm)
Weight	33 lbs. (15 kgs)	42 lbs. (20 kgs)

PRINTING

Print Method	Direct Thermal or Thermal Transfer
Print Mode	Continuous, Tear-off, Cutter, Dispenser, Linerless*

MEDIA

Sensor Type	Adjustable Transmissive Sensor for Gap, justable Reflective Sensor for Black Mark, Paper End, Ribbon Near-end
Media Type	Roll (Continuous, Die-cut), Fan-fold, Tag, Ticket
Media	Thickness (Label & Liner) .002" (0.060 mm) ~ .010" (0.268 mm) Roll Diameter 8.6" (220 mm) on 3" (76 mm) ID Core
Wind	Face-in/ Face-out, No setting change required.
Ribbon	Length 1968.5 ft (600 m) on 1" (25.4 mm) ID Core Roll Diameter Maximum 3.54" (90 mm)
Wind	Face-in/ Face-out, No setting change required.

PROCESSOR

CPU & OS	CPU 1: 2 GB ROM, 256 MB RAM for Linux OS CPU 2: 4 MB ROM, 64 MB RAM for ITRON OS
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COMMUNICATIONS

Standard	USB 2.0 (Type A & B), Ethernet (IPv4/v6), RS232C, IEEE1284, EXT, Bluetooth Ver. 3.0*
Optional Wireless LAN Kit	IEEE802.11 a/b/g/n, Dual Band (2.4GHz/ 5GHz)

* Not applicable to all models

USER INTERFACE

Large Status LED	Blue/ Red
Audible Alert	Adjustable volume settings
Self Diagnosis	Head Check, Cutter Cover Open, Standby-mode, Auto-calibration, Emulation Auto-Detect
Display Panel	3.5" TFT Full Color LCD (320 RGB *240)
Display Language	Over 30 selectable languages
Operation Video	18 preset videos including media loading, parts replacement, cleaning and more. Optional 100 MB space available for customized video.
Emulation	SBPL, SZPL, SDPL, SIPL, STCL, XML

CHARACTERS & FONTS

Character Sets	47 Languages and Scalable Print Fonts
Resident Fonts	Bitmap U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A, OCR-B, Chinese (GB18030, Big 5), Korean (KSX1001)
Scalable	15 SATO Fonts
User Downloadable	Additional support for character sets and fonts with Unicode.

GLOBAL WARRANTY

Printer: 1 year including installed options Print Head: 1,181,000* (30 km) Extended warranty options available
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BARCODE SYMBOLOGIES

1D	Code 39, Code 93, Code 128, CODABAR (NW7), EAN 8/13, GS-1 Databar, GS-1 128 (UCC/ EAN 128), Interleaved 2/5, Industrial 2/5, JAN 8/13, Matrix 2/5, MSI, Bookland, Postnet, UPC-A/E
2D	PDF 417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code, and Composite Symbolegies User Downloadable Fonts, Graphics & Formats Maximum 100 MB

OPERATING CHARACTERISTICS

Electrical	Universal Auto-ranging Power Supply, 100-240 VAC +/-10%, 50/60 Hz Energy Star Compliant
Environment	Standard Operating Temperature 32 ~ 104 °F (0 ~ 40 °C), 30 ~ 80% 30 ~ 80% RH Non-condensing Linerless Operating Temperature 40 ~ 95 °F (5 ~ 35 °C) 30 ~ 75% RH Non-condensing Storage Temperature - 4 ~ 140 °F (-20 ~ 60 °C) 30 ~ 90% RH Non-condensing
Standards & Agency Approvals	IEC 60950, CE Marking ,EN 60950-1, EN 55022 Class A, EN 55024, R&TTE, NEMKO-GS, cMETus, UL60950-1/CSA C22.2 No. 60950-1, FCC 15 (SUB B, C), ICES-003, NMB-003, BIS, C-Tick, RCM, CCC, SRRC, KC, S-Mark (Arg), SIRIM, IDA, PTQC, NBTC

PHYSICAL CHARACTERISTICS

Construction	Die-cast Aluminium (Base, Frame, Front Cover, Ribbon Spindle, Print Head Mechanism)
Side Cover	Space reduction cover design with large media window.
Mounting	3 fixture points for flat or incline setting.

IDEAL INDUSTRIAL SEGMENTS

Manufacturing
 Pharmaceutical
 Transportation
 Healthcare
 Warehousing
 Utilities
 Government
 Food Safety
 Agriculture

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