

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	4.1" (104.0 mm)	6.5" (167.5 mm)
Print Area Max Length	98.43" (2500 mm), 59.06" (1500 mm), 15.75" (400 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 Symbologies
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% 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.



# NX Series

NEXT GENERATION 4" & 6" INDUSTRIAL THERMAL PRINTERS



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# Beyond Expectations

## NX Series

Run All-in-One functions anywhere at anytime



Optimize asset management, increase supply visibility, and expand operational ability with SATO's next generation printing solution.

### Industrial Durability

- Metal casing including front panel and side covers protects against any industrial environment.
- Die-cast Aluminium frame, print and ribbon mechanism provide solid stability to ensure print quality and printer durability.
- 1 year global warranty for printer including installed options. Long lasting 30 kilometer guaranteed print head and platen roller.



### Functional Form

- Bi-fold cover allows compact design and reduces workspace requirement.
- Supports internal, external, clockwise and counter-clockwise rotational media types. Adjustable label holder for increased internal roll capacity.
- Field installable options, snap in print head, and tool-less platen replacement minimize downtime.
- External media inlets, mounting fixtures, and cable hook.



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

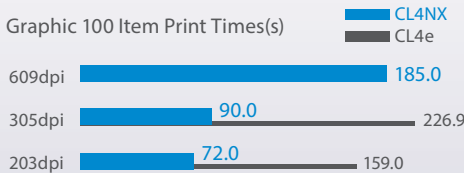
### Intuitive Operation



- LED indicator and color display alert operator to printer status. Guidance videos assist in error resolution and printer maintenance.
- Advanced user Interface for full operational control of print, application, I/F, and system settings via front panel display.
- Customizable GUI content and security enabled menu access let administrators personalize the operator experience.
- Best in class 60° print head opening, tension

- damper, and coreless ribbon system facilitate easy media setup.
- Colored operator touch points ensure safe operation and interactions with movable parts.

### Accurate and Efficient Performance



- Head check function performs print head status analysis before each print to assure printing accuracy.
- High speed data processing with 10 ips print speed equals faster first label out and print job throughput.

- 10 preset darkness levels with finite adjustment between presets for optimal print performance setting
- UHF and HF RFID\* options support a wide variety of tags and include adjustable antenna system for optimal inlay encoding

### Dynamic Integration



- Serial, parallel, LAN and USB combo interface covers all legacy and modern systems requirements. Optional WLAN available.
- SZPL, SIPL, SDPL, STCL command emulations enable direct replacement of printers in legacy applications.
- Auto-switching interface setting and media auto-calibration to adjust sensor levels for faster setup time between print jobs.

- 30+ display languages, 40+ print character sets, and 15 SATO resident fonts, additional user downloadable space provide universal format coverage.
- All major agency approvals permit global deployment for large enterprises or future expansion potential for growing startups.

### Sustainable Innovation

- Coreless ribbon uptake simplifies the loading process. Thermal ribbon is now directly attached to ribbon base and removed via one-touch release button.
- Superior energy efficiency certified by Energy Star the leader in product accreditation. Decrease energy costs without any sacrifice to functionality

- Optional linerless kit eliminates waste associated with traditional label production. No liner equals either more labels per roll for increased productivity or smaller rolls sizes for decreased logistic and storage expenses.

### Model Lineup

#### Cutter

- Front mount guillotine cutter unit
- Single item or batch print job cut settings
- Long lasting blade life



#### Standard

- Tear-off bar for manual media separation
- Label holder adjustable to support up to 10" OD media rolls
- External media slots for rear or bottom feed applications



#### Dispenser

- Dispenser unit including peel bar for liner separation
- Additional internal liner take-up for active peel applications



### Options

#### Linerless \*

- Puretech™Linerless modified cutter unit with on demand sensor
- Anti-adhesive Puretech™ platen roller, media path and sensor cover
- Pureline™ visible wear indicator

#### Print Head

- 203, 305, 609\* dpi resolutions
- User exchangeable snap in design
- Resolution auto-detect



#### Wireless LAN

- 802.11 a/b/g/n
- 2.4/5GHz dual-band switching
- Wi-Fi Direct and CCX certified



#### Real Time Clock

- Time and date tracking RTC
- Enable timestamp labeling



#### RFID Encoder \*

- UHF ISO/IEC 18000-6 or HF ISO/IEC 15693 modules
- Worldwide frequency range setting
- Short pitch encoding support



\* Only available on CL4NX