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Beyond Expectations

CL4NX & CL6NX

NX Series

NEXT GENERATION 4" & 6" INDUSTRIAL THERMAL PRINTERS

www.satoeurope.com

NX Series

Beyond Expectations

Run All-in-One functions anywhere at anytime...

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.



Optimise 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 kilometre 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 minimise downtime.
- External media inlets, mounting fixtures, and cable hook.



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

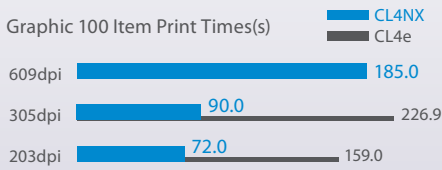


Intuitive Operation

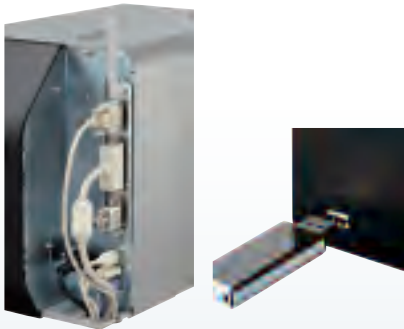


- LED indicator and colour display alert operator to printer status. Guidance videos assist in error resolution and printer maintenance.
- Advanced user Interface for full operational control of print, application, I/F, and system settings via front panel display.
- Customisable GUI content and security enabled menu access let administrators personalise the operator experience.
- Best in class 60° print head opening, tension damper, and coreless ribbon system facilitate easy media setup.
- Coloured operator touch points ensure safe operation and interactions with movable parts.

Accurate and Efficient Performance

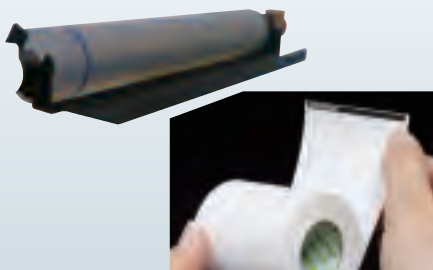


- Head check function performs print head status analysis before each print to assure printing accuracy.
- High speed data processing with 10 ips print speed equals faster first label out and print job throughput.
- 10 preset darkness levels with finite adjustment between presets for optimal print performance 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 boss 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 roll sizes for decreased logistic and storage expenses.

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 labelling



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

TECHNICAL INFORMATION

PRINTING SPECIFICATION		CL4NX			CL6NX	
Printing Method		Direct Thermal / Thermal Transfer				
Print Resolution		8 dots/mm 203 dpi	12 dots/mm 305 dpi	24 dots/mm 609 dpi	8 dots/mm 203 dpi	12 dots/mm 305 dpi
Max. Print Speed		10 ips 254 mm/sec	8 ips 203 mm/sec	6ips 152 mm/sec	10 ips 254 mm/sec	8 ips 203 mm/sec
Max. Print Area	Width, mm (inch)	104mm (4.1")			167.5mm (6.5")	
	Length, mm (inch)	2500mm (98.43")	1500mm (59.1")	400mm (15.7")	2500mm (98.43")	1500mm (59.1")
Processor		Dual CPU & Dual OS: CPU 1: 2GB ROM, 256MB RAM for Linux OS, CPU 2: 4MB ROM, 64 MB RAM for ITRON OS				
Printer Memory		2GB ROM, 256MB RAM				

CONSUMABLES SPECIFICATION (Recommended to use printer supplies manufactured or certified by SATO)							
Sensor Type		I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive)					
Media Type		Roll or fan-fold die cut labels, Plain paper face stock, Synthetics and Continuous stock					
Media Thickness		0.06- 0.26mm (0.002" - 0.01")			0.08 - 0.268mm (0.003" - 0.01")		
Label Shape	Diameter	Maximum 220mm (8.6") on 76mm (3") internal core diameter Core diameter: Ø 76mm (3.0"), Ø 101mm (4.0")					
	Wind Direction	Face In / Face Out. No Setting Change Required					
Label Size	Continuous	Width	22 - 128mm .87" - 5.0"	22 - 128mm 0.87" - 5.0"	22 - 128mm 0.87" - 5.0"	47-177mm 1.27"-6.96"	47-177mm 1.27"-6.96"
		Length	6-2497mm 0.24"- 98.3"	6-1497mm 0.24"- 58.9"	6-397mm 0.24"- 15.6"	16-2500mm 0.63"-98.4"	16-1500mm 0.63"-59.1"
	Tear-Off	Width	22-128mm 0.87"- 5.0"	22-128mm 0.87"- 5.0"	22-128mm 0.87"- 5.0"	47-177mm 1.27"-6.96"	47-177mm 1.27"-6.96"
		Length	17-2497mm .67"-98.3"	17-1497mm .67"- 58.9"	17-397mm .67"- 15.6"	17-2500mm 0.67"- 98.4"	17-1500mm 0.67"- 59.1"
	Cutter	Width	22-128mm 0.87"- 5.0"	22-128mm 0.87"- 5.0"	22-128mm .87"- 5.0"	47-177mm 1.27"-6.96"	47-177mm 1.27"-6.96"
		Length	17-2497mm .67"-98.3"	17-1497mm .67"-58.9"	17-397mm .67"-15.6"	17-2500mm 0.67"- 98.4"	17-1500mm 0.67"- 59.1"
	Dispenser	Width	22-128mm .87" to 5.0"	22-128mm .87" to 5.0"	22-128mm .87" to 5.0"	47-177mm 1.27"-6.96"	47-177mm 1.27"-6.96"
		Length	27-397mm 1.06"-15.6"	27-397mm 1.06"-15.6"	27-397mm 1.06"-15.6"	27-397mm 1.06"-15.6"	27-397mm 1.06"-15.6"
	Linerless	Width	60 -118mm 2.36"- 4.6"	60 -118mm 2.36"- 4.6"	60 -118mm 2.36"- 4.6"	Not available	Not available
		Length	30-120mm 1.2"- 4.9"	30-120mm 1.2"- 4.9"	30-120mm 1.2"- 4.9"	Not available	Not available
	Ribbon	Size	Max. Length: 600m (1969'). 450m (1476') when ribbon width is 39.5mm. Max. Roll Diameter: 90mm (3.5"), Ribbon width : 39.5mm (1.55") to 128mm (5.04")			As CL4NX 39.5mm (1.55") to 177mm (7.0")	
		Other	Core diameter: Ø 25.4mm (1"), Wind direction : Face In/ Face Out, No Setting Change Required				

FONTS / SYMBOLOGIES		
Internal Fonts	Standard Bitmap	U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A, OCR-B
	TTF Fonts	CG Sleek, CG Stream, Sato Gamma (Bold, Italic, Bold Italic), Sato Vica (Bold, Italic, Bold Italic), Sato Folio Bold, Sato Vica Light Condensed, Sato Alpha Bold Condensed, Sato O Bold Condensed, Sato Futura Medium Condensed, Sato OCR-B, Sato Symbol Set, Sato Wingbats, Sato Sans(Bold), Sato Serif(Bold), HGMLAG, Sato Beta Bold Italic, Helvetica, Universal, Universal Condensed Bold, AR Hebe Sans, AR SilverS erif, AR Hebe Sans Farsi, Other Asian True Type fonts, Optional Downloaded TrueType fonts, scalable from 8 to 72 points
	Encoding	Major Latin and Pan-European Code Pages (WGL4), GB18030 (simplified), KSX1001 (Korean), BIG5 (traditional), JIS, SHIFT-JIS, UTF-8 and UTF-16BE also supported
Barcode	Linear	Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-DatabarTM, GS1-128(UCC/EAN128), Interleaved 2/5, Industrial 2/5, JAN8/13, Matrix 2/5, MS1, Bookland, PostnetTM, UPC-A/E
	2D Symbolologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symbolologies
Print Direction		Character data rotation: 0°, 90°, 180°, 270° Barcode rotation: 0°, 90°, 180°, 270°
User Downloadable Fonts, Graphics or Formats		Maximum 100MB

INTERFACE CHARACTERISTICS AND INTEGRATION		
Interfaces	RS232	RS232C Standard (XON/XOFF, RTS/CTS)
	IEEE1284	IEEE1284
	USB	USB2.0 type-B, USB2.0 type-A USB Host(2 ports)
	LAN	Ethernet 10/100 Mbps / DHCP(ipv4 / ipv6), TCP/IP
	Bluetooth	Version 3.0 + EDR Class 2
	EXT IO	Amphenol D-Sub14pin female
Optional Interface		Wireless LAN (WiFi and CCX Certified), Wifi Direct, IEEE 802.11a/b/g/n, Dual band (2.4GHz, 5GHz)
Remote Maintenance		SNMP Ver. 3, HTTPs
Supported printer protocols		Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL,SIPL or STCL

OPERATING CHARACTERISTICS		
Power Requirements		AC100V~AC240V±10%, 50/60 Hz, Auto-ranging Power Supply, Energy Star – Compliant
Environment	Operating	0 – 40 °C / 30 – 80 % RH (without condensation)
	Operating Linerless	5 -35°C / 30 - 75 % RH (without condensation)
	Storage	-20 – 60 °C / 30 –90 % RH (without condensation)
Dimensions		CL4NX: 271 mm (10.6") x 457mm (17.9") x 321mm (12.6)"CL6NX: 338mm (13.3") x 457mm (17") x 321mm (12.6")
Weight		CL4NX: 15Kg (33 lbs) CL6NX: 20Kg (42 lbs)
Display Panel		TFT Full Color LCD, 3.5"(320 (RGB) *240)

MISCELLANEOUS	
Standards & Agency Approvals	IEC 60950, CE Marking, EN 60950-1, EN 55022 Class A, EN 55024, R&TTE, NEMssO-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
Functions – Useful features	18 User Guidance Videos on LCD with space for customized videos, Multi Language support LCD message (30 Languages), Energy Saving, Large Status LED, Multiple Interfaces-Auto-switching, USB Memory for data copy, Status return, Alarm Sound
Functions – Self Diagnosis Checking	Thermal head check, Paper end detection, Ribbon end detection, Test print, Head Lift detection

OPTIONS		
Accessories	CL4NX	Cutter, Linerless Cutter Kit, Dispenser with Internal Backing Paper Rewinder, Real-Time Clock, UHF RFID, Wireless LAN kit
	CL6NX	Cutter, Simple Dispenser, Dispenser with Internal Backing Paper Rewinder, Real-Time Clock, Wireless LAN kit.

RFID SPECIFICATION (optional)		
UHF	Standard	ISO18000-6 Type C
	Frequency	868 – 920MHz
	Protocols	EPC Gen 2 Class 1, NXP, Impinj, Alien
	RFID Features	Fully integrated UHF RFID Reader / Encoder Module. Void marking of damaged or unreadable transponders, RFID data verification after programming. Multiple RFID power settings allow users to use individual transponder sizes, DIP (Direct Inlay Printing) allows use of short pitch labels. PWP allows flexible inlay positions, TID reading and printing as text and barcode.
	Gen2 Memory	Expanded EPC (496bit), User Memory (512bit), TID (96bit), Access password, Kill password, Lock