



NX Series

NEXT GENERATION 4" & 6" INDUSTRIAL THERMAL PRINTERS

AEP APPLICATION ENABLED PRINTING

www.satoeurope.com



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.



Application Enabled Printing

- AEP is a powerful on-board intelligence which enables customisation of the printer operation to significantly simplify labelling processes and reduce business costs.
- It also allows the direct connection of common peripherals such as numeric keypads, gwerty keyboards, scanners & weighscales. Plus automatic fetch of network or cloud data. Reduces up-front costs as a PC is not essential for printing.
- AEP solutions are highly flexible and are easily implemented.



- LED indicator and colour displays alert operator to the printer status.
- Pre-installed guidance videos assist in error resolution and printer maintenance.
- Capability to upload customised start-up screen and videos.
- Advanced user interface for full operational control of print, application, I/F, and system settings via the front panel display.

High Performance & Sustainable Innovations

- Head check function to ensure barcode printing accuracy.
- High speed data processing equals faster first label out and print job throughput.
- Label and Ribbon Near-End & End sensors.

- Energy Star power efficiency certification

One-touch release.

- Serial, parallel, LAN, USB and Bluetooth combo interface covers all legacy and modern systems requirements. Optional WLAN available.
- SZPL, SIPL, SDPL, STCL SEPL 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.

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.



Model Lineup



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







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

Barcode Checker Simple and

inexpensive option • Confirms that the barcode content is correct. Void marks and reprints

the label if necessary

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









Intuitive Operation & On-screen Video Guidance

- Coreless ribbon take up with
- Optional linerless media kit eliminates the waste associated with conventional label production.

Dynamic Integration

- Customisable GUI content and security enabled menu access allows administrators to 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.
- 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.
- 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
- NFC chip enables fast configuration and printer status checking.

Functional Benefits

- 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



Wireless LAN

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Real Time Clock

- Time and date
- tracking RTC • Enable timestamp labelling

RFID Encoder *

- UHF ISO/IEC 18000-6 or HF ISO/IEC 15693 & 14443 • PJM 100% accuracy & close
- stack tagging
- Short pitch encoding support



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 Max. Print Area	· · · · · · · · · · · · · · · · · · ·		10 ips 254 mm/sec 104mm (4.1")	8 ips 203 mm/sec	6ips 152 mm/sec	10 ips 254 mm/sec 167.5mm (6.5"")	8 ips 203 mm/sec	
max. FILL AIEd			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			,		
	S SPECIFICAT	ION (Reco	mmended to use	nrinter sunnlies i	manufactured or	certified by SATO)	
Sensor Type	5 SI Leil Ie/II	ion (neco		ive), Label Gap Sensor (1		certified by 5/110	7	
Media Type			· · ·	<i>"</i>	stock, Synthetics and Con	tinuous stock		
Media Thickness		0.06- 0.26mm (0.002" - 0.01") 0.08 - 0.268mm (0.003" - 0.01")						
Label Shape	Roll Diameter		Maximum 220mm (8.	6") on 25mm (1") - 76mm	n (3") core diameter Optio	onal 254mm (10") setting		
Labal Cinc	Wind Direction	-	Face In / Face Out. No Setting Change Required 22 120mm 07// 50// 22 22 120mm 07// 50// 47 127// 50// 47 127// 50// 47					
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"	
	Tear-Off	Length Width	6-2497mm 0.24"- 98.3" 22-128mm 0.87"- 5.0"	6-1497mm 0.24"- 58.9" 22-128mm 0.87"- 5.0"	6-397mm 0.24"- 15.6" 22-128mm 0.87"- 5.0"	16-2500mm 0.63"-98.4" 47-177mm 1.27"-6.96"	16-1500mm 0.63"-59.1 47-177mm 1.27"-6.96"	
	Tear-On	Length	17-2497mm .67"-98.3"			17-2500mm 0.67"- 98.4"		
	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	
Dille		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 (1 Max. Roll Diameter: 90		n ribbon width is 39.5mm	As CL4NX		
			Ribbon width : 39.5mm (1.55") to 128mm (5.04") 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 / SYMB	OLOGIES							
Internal Fonts	Standard Bitm	ар	U, S, M, WB, WL, XS, XU	J, XM, XB, XL, OCR-A, OC	R-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 0 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	Linozr			Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-DatabarTM, GS1-128(UCC/EAN128), Interleaved 2/5,				
barcoue	Linear				and, PostnetTM, UPC-A/E		, interieaved 2/3,	
	2D Symbologies		PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symbologies					
Print Direction			Character data rotatio	on: 0º, 90º, 180º, 270º B	arcode rotation: 0°, 90°, 18	80°, 270°		
User Downloadable F	onts, Graphics or F	ormats	Maximum 100MB					
INTERFACE CH	ARACTERIST	ICS AND IN	TEGRATION					
nterfaces 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 EXT IO		Version 3.0 + EDR Class 2					
Optional Interface			Amphenol D-Sub14pin female 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 SATO Alerte					
Supported printer protocols			Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL,SIPL or STCL or SEPL					
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OPERATING CH	IANACTERIS			06 50/60 H= A=	a Power Supply France C	tar Compliant		
Power Requirements Environment	Operating		AC100V~AC240V±10%, 50/60 Hz, Auto-ranging Power Supply, Energy Star – Compliant 0 − 40 °C / 30 −80 % RH (without condensation)					
Environment	Operating Operating Linerless		5 -35°C / 30 - 75 % RH (without condensation)					
	Storage		-20 – 60 °C / 30 –90 % RH (without condensation)					
Dimensions		CL4NX: 271mm (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	5"(320 (RGB) *240)				
MISCELLANEO	US							
Standards & Agency A			IEC 60950, CE Marking, I	EN 60950-1, EN 55022 Class	A, EN 55024, R&TTE. NEMss	O-GS, cMETus, UL60950-1/0	SA C22.2 No. 60950-1.	
			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					ces-Auto-switching, USB Me nd and End detection, Tes			
					na and End detection, les	si print, nead Open detec		
OPTIONS								
Accessories	CL4NX			Cutter, Linerless Kit, Dispenser with Internal Backing Paper Rewinder, Real-Time Clock, Wireless LAN, Barcode Checker kit. Cutter, Simple Dispenser, Dispenser with Internal Backing Paper Rewind, Real-Time Clock, Wireless LAN, Barcode Checker kit.				
	CL6NX		Cutter, Simple Dispens	er, Dispenser with Interna	I Backing Paper Rewind, Re	al-Time Clock, Wireless LA	N, Barcode Checker kit.	
RFID SPECIFIC	ATION (optio	nal)						
UHF and HF options	Standard		UHF: ISO 18000-6 Typ	e C HF: ISO 1569593 &	ISO 14443 Type A Phase	Jitter Modulation: 100% a	accuracy stack tags	
available	Frequency		868 - 960MHz and 13.56 MHz					
	Protocols		EPC Gen 2 Class 1, NXP, Impinj, Alien & others					
	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.					
	1		Expanded EPC, User Memory, TID (96bit), Access password, Kill password, Lock					