





NX Series

NEXT GENERATION 4" & 6" INDUSTRIAL THERMAL PRINTERS

AEP APPLICATION ENABLED PRINTING

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.



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.

Intuitive Operation & On-screen Video Guidance







- I FD 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.
- 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.

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.
- · Coreless ribbon take up with One-touch release.
- Energy Star power efficiency certification.
- Optional linerless media kit eliminates the waste associated with conventional label production.
- 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, 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.
- 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.



- 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 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 book



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

Wireless LAN

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

Real Time Clock

- Time and date
- tracking RTC Enable timestamp
 - labelling



RFID Encoder * UHE ISO/IEC 18000-6 or HE ISO/IEC 15693 & 14443

- PJM 100% accuracy & close stack tagging
- Short pitch encoding support







Model Lineup

Cutter

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 hottom feed applications

Dispenser

Dispenser unit including peel bar for liner separation

 Additional internal liner take-up for active peel applications



TECHNICAL INFORMATION

PRINTING SPECIFICATION Printing Method			CL4NX			CL6NX		
Printing Method			Direct Thermal / Therm					
Print Resolution			8 dots/mm 203 dpi	12 dots/mm 305 dpi	24 dots/mm 609 dpi	8 dots/mm 203 dpi		
Max. Print Speed	140 del (C.	-L-X	10 ips 254 mm/sec	8 ips 203 mm/sec	6ips 152 mm/sec	10 ips 254 mm/sec		
Max. Print Area	Width, mm (included)		104mm (4.1")	1500mm (50.1")	400mm (15.7")	167.5mm (6.5"") 2500mm (98.43")		
Processor	Length, mm (ii	ICII)	2500mm (98.43") 1500mm (59.1") 400mm (15.7") 2500mm (98.43") 1500mm (59.1") 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				
,	SDECIEICAT	ION (Paca)			manufactured or	r certified by SATO)		
Sensor Type	SPECIFICAL	ION (Reco		ve), Label Gap Sensor (T		r certified by SATO		
Media Type				labels, Plain paper face:		ontinuous stock		
Media Thickness	21		0.06- 0.26mm (0.002" - 0.01") 0.08- 0.268mm (0.003" - 0.01")					
abel Shape Roll Diameter		Maximum 220mm (8.6") on 25mm (1") - 76mm (3") core diameter Optional 254mm (10") setting						
	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"			
	T 0"	Length	6-2497mm 0.24"- 98.3"	6-1497mm 0.24"- 58.9"		16-2500mm 0.63"-98.4"		
	Tear-Off	Width	22-128mm 0.87"- 5.0" 17-2497mm .67"-98.3"	22-128mm 0.87"- 5.0" 17-1497mm .67"- 58.9"	22-128mm 0.87"- 5.0" 17-397mm .67"- 15.6"	47-177mm 1.27"-6.96"		
	Cutter	Length Width	22-128mm 0.87"- 5.0"	22-128mm 0.87"- 5.0"	22-128mm .87"- 5.0"	17-2500mm 0.67"- 98.4" 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"		
	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"		
		Length	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		
		Length	30-120mm 1.2"- 4.9"	30-120mm 1.2"-4.9"	30-120mm 1.2"-4.9"	Not available		
Ribbon	Size			969'). 450m (1476') wher	ribbon width is 39.5mr	m. As CL4NX		
			Max. Roll Diameter: 90mm (3.5"), Ribbon width: 39.5mm (1.55") to 128mm (5.04") 39.5mm (1.55") to 177mm (7.0")					
	Other					etting Change Required	(7.0)	
FONTS / SYMBO) OGIES							
Internal Fonts	Standard Bitma	an	II S M WR WI YS YII	, XM, XB, XL, OCR-A, OCF	D_R			
internal ronts	TTF Fonts					sold, Italic, Bold Italic), Sato F	Folio Bold, Sato Vica	
	TH Volles					d, Sato Futura Medium Conc		
						MLAG, Sato Beta Bold Italic, I		
			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					ed), KSX1001 (Korean), BIG5	(traditional), JIS, SHIFT	
			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					TM, GS1-128(UCC/EAN128),	Interleaved 2/5,	
2D Symbologies			Industrial 2/5, JAN8/13, Matrix 2/5, MS1, Bookland, PostnetTM, UPC-A/E PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symbologies					
	2D Symbologic	20	PDE417 Micro PDE Ma	· · · ·			ogies	
Print Direction	2D Symbologie	es		ixi Code, GS1 Data Matri	x, QR Code, Micro QR Co	ode and Composite Symbol	ogies	
Print Direction User Downloadable Fo	, , ,			· · · ·	x, QR Code, Micro QR Co	ode and Composite Symbol	ogies	
User Downloadable Fo	nts, Graphics or Fo	ormats	Character data rotation Maximum 100MB	ixi Code, GS1 Data Matri	x, QR Code, Micro QR Co	ode and Composite Symbol	ogies	
User Downloadable Fo	nts, Graphics or Fo	ormats	Character data rotation Maximum 100MB TEGRATION	axi Code, GS1 Data Matri n: 0°, 90°, 180°, 270° Ba	x, QR Code, Micro QR Co	ode and Composite Symbol	ogies	
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