



CL4NX **Plus**

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Raising the bar for industrial label printers



CL4NX Plus



Optimise print precision, increase printing speeds and expand operational capability with this high-quality industrial printer from SATO.

The CL4NX Plus is able to handle both high-end and mid-range printing requirements in one complete solution and represents the evolution of SATO industrial thermal printers. The industry-leading printer enables the reduction of labour costs as a result of fewer media changes.

The printer also possesses a broader selection of media, including reduced label sizes which saves on costs and boosts sustainability.

The best industrial printer just got better.

A result of the Ceaseless Creativity of our global R&D network, the CL4NX Plus printer incorporates value-added features in a world-class design to deliver a printing solution that goes beyond expectations.



IDEAL FOR APPLICATIONS IN:

- ✓ Retail
- ✓ Supply Chain
- ✓ Manufacturing
- ✓ Automotive
- ✓ Food Industry
- ✓ Healthcare



CL4NX Plus

NEW FEATURES:

- 14ips printing speed even at 305pi
- Increased precision for micro label applications
- 30% more ribbon capacity*

Key Features:

- 47 print and 31 display languages
- SATO Online Services (SOS) enabled
- Application Enabled Printing (AEP) 3.0
- Simple to operate
- High printing accuracy
 - Plug-and-play
- Keeps operations running for longer
- Best in class ribbon core (compared to other label printers)
- UHF, HF RFID and NFC print & encode capabilities (coming soon)



SATO Application Enabled Printing (AEP) 3.0

A powerful on-board intelligence enables customisation of the printer operation to significantly simplify labelling processes and reduce business costs.

The CL4NX Plus comes equipped with the latest Application Enabled Printing (AEP) 3.0 capability for heightened flexibility.



AEP 3.0 introduces the next generation of smart label printing:

- Input devices such as scanners, keypads, weigh scales can be directly connected
- Standalone printing is possible without the need for a host PC or additional software
- Prompted operator activity
- Printer operation is easily customised to the business requirement
- Network/Cloud communication for database access or other functions.

SATO AEP-enabled printers offer a single step solution acting as both application host and thermal barcode label printer. This is ideal in instances where it is not conducive or desirable to have a personal computer to control label printing via software connected to a thermal label printer.

The CLNX AEP printer solution offers:

- ✓ User-friendly operation
- ✓ Reduced errors and recovery expenses
- ✓ Improved productivity
- ✓ Reduced costs as AEP avoids additional external hardware requirements.



Find out more about SATO AEP: satoeurope.com/products/aep.php



SATO Online Services (SOS)

SOS is a cloud-based system that enables remote preventative maintenance and error detection of the CL4NX Plus without the need to call an on-site engineer. With online connectivity, the status of the printer is monitored to enable efficiency improvement recommendations, as well as proactively preventing costly downtime and associated loss of revenue.

Benefits

- Manages operation status of printers on the Cloud for global operations
- Provides access to printer status data
- Allows remote firmware updates of printers and to add new features
- Substantially reduces amount of time required to pinpoint problems
- Keeps operations running and eliminates unplanned downtime
- Allows notification of errors
- Enables on-the-spot troubleshooting, without the need for an engineer on-site
- Allows visualisation of printer usage which enables planning in advance for replacement of parts.



Dynamic Integration.

- Supports connection through multiple interfaces (USB, LAN, Bluetooth, NFC, RS-232C, IEEE1284, EXT)
- SZPL, SIPL, SDPL, STCL and SEPL command emulations enable direct replacement of printers in legacy applications
- Automatic media calibration to adjust sensor levels for faster setup time between print jobs and different labels
- 30+ display languages, 40+ print character sets, 15 SATO resident fonts and additional user downloadable space for databases, label format, etc. allow businesses to use a single printer model anywhere in the world
- Obtained all major agency approvals making printer ideal for global roll-out
- NFC communication enables fast configuration and printer status checking
- 18 Pre-installed guidance videos for error resolution and printer maintenance
- Abundant amount of memory – 15 font sets already installed with extra room for customised videos, databases, fonts, label formats or standalone applications.

Functional Designs

- ✓ Bi-fold cover and compact design reduces workspace area requirement
- ✓ Supports various media including fan fold, clockwise and anticlockwise rolls, as well as an inlet for external label feeding
- ✓ Face in/out ribbon can be used without changing settings
- ✓ Super open wide head for easy to reach maintenance and smoother media replacement OR large opening to the media path allows for simple media loading and easy accessibility to the printhead and media path for regular maintenance
- ✓ Tool-less platen replacement to minimise downtime, user-replaceable consumable parts and snap-in print head
- ✓ Intuitive platen roller wear indicator OR visual wear indicator queues the operator when to replace platen roller.
- ✓ Metal casing covers protect the printer in any industrial environment
- ✓ Die-cast aluminium frame, print, and ribbon mechanism provide solid stability to ensure print quality and printer durability.



High Performance & Sustainable Innovation

- Thermal head check function to ensure barcode printing integrity
- Optional linerless media support reduces the waste associated with conventional labels
- 14ips print speed and quick data processing, resulting in faster first label out and higher productivity
- Environmentally friendly coreless ribbon take up, with one touch release for easy removal
- Automatically goes into low power standby mode when not in use, to reduce energy consumption
- Enhanced print precision throughout the entire roll for micro label printing
- Simple to adjust settings in both software and hardware to easily achieve optimal performance for any media.

Options

- Guillotine Cutter
- Linerless Cutter
- Dispenser with Optional Internal Liner Rewinder
- Real Time Clock
- WiFi - 802.11 a/b/g/n
- 1D and 2D barcode checker to ensure readability
- UHF and HF RFID – coming soon
- Rotary Cutter – coming soon.

CL4NX Plus Technical Specification

PRINTING SPECIFICATION				
Printing Method	Direct Thermal / Thermal Transfer			
Print Mode	Continuous, Tear-off, Cutter, Dispenser, Linerless			
Print Resolution	8 dots/mm (203 dpi)		12 dots/mm (305 dpi) 24 dots/mm (609 dpi)	
Max. Print Speed	14 ips (355 mm/sec)		14 ips (355 mm/sec) 6 ips (152 mm/sec)	
Max. Print Area	Width, mm (inch)	104mm (4.09")		
	Length, mm (inch)	2500mm (98.42")	1500mm (59.05")	400mm (15.75")
Processor	Dual CPU & Dual OS: CPU1: 800MHz for Linux OS, CPU2: 800MHz for ITRON OS			
Printer Memory	CPU1: 2GB ROM, 256MB RAM, CPU2: 4MB ROM, 64MB RAM			
CONSUMABLE SPECIFICATION (Recommended to use consumables manufactured or supplied 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	0.060 - 0.268mm (0.0024" - 0.011")			
Label Shape	Diameter	Maximum 265mm (10.43") Core diameter: Ø40mm (1.5") Ø76mm (3.0"), Ø101mm (4.0")		
	Wind Direction	Face In / Face Out. No Setting Change Required.		
Label Size (Without Liner)	Continuous	Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04") 22 - 128mm (0.87" - 5.04")
		Length	6 - 2497mm (0.24" - 98.30")	6 - 1497mm (0.24" - 58.94") 6 - 397mm (0.24" - 15.63")
	Tear-Off / Cutter	Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04") 22 - 128mm (0.87" - 5.04")
		Length	17 - 2497mm (0.67" - 98.30")	17 - 1497mm (0.67" - 58.94") 17 - 397mm (0.67" - 15.63")
	Dispenser	Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04") 22 - 128mm (0.87" - 5.04")
		Length	10 - 397mm (0.39" - 15.63") TT only	10 - 397mm (0.39" - 15.63") TT only 10 - 397mm (0.39" - 15.63") TT only
	Linerless	Width	60 - 118mm (2.36" - 4.65")	60 - 118mm (2.36" - 4.65") 60 - 118mm (2.36" - 4.65")
		Length	30 - 120mm (1.18" - 4.72")	30 - 120mm (1.18" - 4.72") 30 - 120mm (1.18" - 4.72")
Ribbon	Size	Max. Length: 600m (1968.5'), 450m (1476.4') when ribbon width is 39.5mm (1.55") Max. Roll Diameter: 90mm (3.5"), Ribbon width: 39.5mm (1.55") to 128mm (5.04")		
	Other	Core diameter: Ø25.4mm (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, X20, X21, X22, X23, X24, OCR-A, OCR-B		
	Scalable Fonts	30 SATO Fonts, 2 Outline Fonts		
	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	UPC-A/UPC-E, JAN/EAN-13/8, CODE39, CODE93, CODE128, GS1-128(UCC/EAN128), CODABAR(NW-7), ITF, Industrial 2 of 5, Matrix 2 of 5, MSI, POSTNET, UPC add-on code, BOOKLAND, USPS code, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked		
	2D Symbologies	QR Code, Micro QR Code, PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code and Composite Symbologies		
Print Direction	Character data rotation: 0°, 90°, 180°, 270°			
User Downloadable Fonts, Graphics or Formats	Maximum 100MB			
INTERFACE CHARACTERISTICS AND INTEGRATION				
Standard Interfaces	USB 2.0 (Type A & B), Ethernet (IPv4/v6), RS232C, IEEE1284, EXT, Bluetooth Ver. 3.0 ¹²			
Optional Interface	Wireless LAN, WiFi Certified, Wifi Direct, IEEE 802.11 a/b/g/n Dual Band (2.4GHz, 5GHz)			
Remote Access	SNMP Ver.3, HTTPs			
Supported printer protocols	Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL, SIPL, STCL, SEPL			
OPERATING CHARACTERISTICS				
Power Requirements	AC100V ~ AC240V±10%, 50/60 Hz, Auto-ranging Power Supply			
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	271mm (10.67") × 457mm (18.00") × 321mm (12.64")			
Weight	15.1kg (33.28 lbs)			
Display Panel	TFT Full Color LCD, 3.5"(320 x 240 RGB)			
MISCELLANEOUS				
Standards & Agency Approvals	Please contact your nearest SATO sales representative regarding agency approvals for your region			
Functions – Useful Features	Micro Label Printing, SATO Application Enabled Printing, SATO Online Services, 18 User Guidance Videos on LCD, Space for Customised Videos, Multi Language Support LCD Message (31 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	Cutter, Linerless Kit, Dispenser with Internal Liner Rewinder, Real-Time Clock, Wireless LAN, Barcode Checker Kit, External Rewinder, External Cover, RFID (coming soon), Rotary Cutter (coming soon)			



For more information, please visit:

<https://systemsprintmedia.co.uk/sato-cl4nx-plus.html>



Ceaseless Creativity for a Sustainable World

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