

CL4NX Plus

Best-in-class 4"
Thermal Industrial Printer

CL4NX Plus

Designed for Track & Trace Operations Globally

The rise of IoT is driving digital transformation across industries. Increasingly, businesses use data to gain traceability, enhance productivity and improve customer satisfaction. With our extensive experience in providing solutions to serve customers' on-site needs, we are proud to introduce CL4NX Plus, the industry's leading 4-inch industrial thermal printer designed to meet the requirements of mid-range to high-end label printing environments.

KFY APPLICATIONS:

Manufacturing

Raw material to product labelling for greater traceability

Built for tough industrial use, CL4NX Plus helps manufacturers gain clear visibility and traceability from raw materials to finished products which is especially helpful in the event of product defect.

Electronic manufacturers can leverage SATO's heat resistant labels and CL4NX Plus for high precision printing of micro PCB labels for their electronic products that are getting ever smaller.





Retail

Backyard to in-store labelling for higher sales and customer satisfaction

Ideal for high-volume distribution label printing, CL4NX Plus helps prevent incorrect deliveries of goods from warehouses to stores.

Retailers can also achieve more efficient stocktaking & visibility of store inventory by re-labelling products from factories with RFID. A wide range of labels, tags, tickets for various needs from markdown to anti-tampering are available.



Automotive

Effective identification tagging for productivity boost

CL4NX Plus is ideal for automobiles and parts makers to boost efficiency and productivity.

With AEP and PDF Direct Printing, printer processes data in PDF format from PC to print, cut and sort ID tags automatically without worker intervention at high accuracy. User can also print directly from PLC to printer and easily implement same printing application at any manufacturing plants.





Transport & Logistics

Supply chain labelling for enhanced agility and visibility

Suitable for labelling across the supply chain, from goods receiving, inventory management to shipping, user can save various label templates in CL4NX Plus for easy selection and setup.

Choose from our wide label selection including special types such as 3-layer labels suitable for shipping and return of goods.

We meet all your printing needs with one complete solution

Speed & Precision

High Print Speed & Precision

Offers high print precision ideal for micro label applications and 16% faster print speed than other industrial printers even at high resolution.



14 ips at 305 dpi

Continuous Usage

30% More Media

More media per roll and longer ribbon mean lesser downtime for media replenishment.

Minimal Downtime

View status of all printers at a glance and perform proactive preventative maintenance before error occurs. PureLine™ platen roller provides visual indication of the degree of wear to enable preventative maintenance.



White line indicator on PureLine™ platen roller before use.



when platen roller starts to wear out.

White line starts to fade

Durable & Functional Design

Metal casing with bi-fold cover makes printer suitable for use in industrial environments with limited space.



95 mm



Die-cast aluminium construction for greater stability and durability.



Stainless steel is used for the paper transport route. Printing position does not shift due to resin shaving.



Highly durable thermal head enables long-term high-quality printing.



Usability

Intuitive Operation

Enable prompt response by easily detecting operation errors with red / blue LED indicator lights. Speed up maintenance and error resolution with video guidance on full colour LCD screen.

Easy Setup & Maintenance

Field installable parts, snap-in print head and tool-less platen replacement simplifies setup and maintenance.









We speak your language & integrate seamlessly into your business.

Flexibility & Connectivity

Pre-installed Emulation Languages

Auto detection of major emulation languages enable seamless switching from SATO legacy models or other brands to CL4NX Plus.

SBPL/SZPL/SDPL/SIPL/STCL/SEPL/

Multilingual Support

Supports 47 print and 31 display languages making this model suitable for global use.



Direct Connectivity to Peripheral Devices

AEP enables user to directly connect printer to keyboards, weight scales, barcode scanners and more for simplified printing without needing a PC.

Multiple Interfaces

Connect via multiple interfaces including bluetooth, serial, parallel, LAN and USB. WLAN optional kit also available.





Expand the scope of your label printing applications



Application Enabled Printing is a powerful printing intelligence that enables customisation of printer operations to achieve wider scope of printing applications, simplify labelling processes and reduce business costs.

Custom Applications

With AEP, we can create custom standalone applications to cater to your on-site operational needs. Application can be run directly on the printer, independent of host software.

CL4NX Plus prints labels and displays instructions on LCD screen for operators to sort (left or right) the printed labels for further processing.

PC-less Printing

Connect CL4NX Plus directly to barcode scanners, indicator lights, weight scales, keyboards, etc. for a wider variety of printing applications, without the needing a PC.

Input data directly using barcode scanner and numeric keypads to simplify label printing.

Direct Printing from PLC

With AEP, user can easily integrate CL4NX Plus with other devices such as Programmable Logic Controller (PLC) to streamline label printing by eliminating the need for device customisation or special printer firmware.



CL4NX Plus



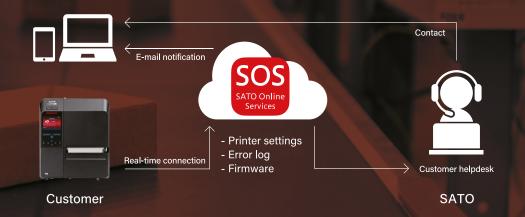
loT solution to keep your operations running & visible





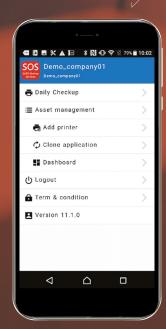
By monitoring your printers 24/7 via cloud, SATO Online Services enables proactive preventative maintenance and helps you reduce printer downtime by as much as 86%.

*based on survey conducted by SATO in Japan



Proactive Preventative Maintenance

SOS Smart App



Monitor printers centrally (view operation status, print mileage, expected replacement required for expendable parts, etc.) at a glance and perform preventative maintenance before issues occurs, SOS sends a notification. SOS send notification via email according to the situation of your printer, solving errors immediately.





Manage Printers at Multiple Locations

Manage printer fleet such as view and change print speed, print darkness, print position and network settings efficiently from anywhere at anytime.

*1 Length of 10 to 27mm is only available for Thermal Transfer mode *2 Please contact your nearest SATO sales representative for availability

CL4NX Plus Technical Specifications

PRINTING SPECIFICATIO			Disast Thermal / The Land		
Printing Method		Direct Thermal / Thermal Transfer			
Print Mode			Continuous, Tear-off, Cutter, Dispense		04.1 . / //00.1 %
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")		445
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 SPECIFIC	ATION (Recomm	ended to us	se consumables manufactured or s	upplied by SATO)	
Sensor Type			I-mark Sensor (Reflective), Label Ga	p 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: Ø76mm (3.0"), Ø101mm (4.0")		
Laber Shape	Wind Direction		Face In / Face Out. No Setting Change Required		
Label Size (Without Liner)	Continuous Tear-off/ Cutter Dispenser	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")
		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")
		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")*1	10 - 397mm (0.39" - 15.63")*1	10 - 397mm (0.39" - 15.63")*1
	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")		
MIDDON	Other		Core diameter: Ø25.4mm (1"), Wind direction : Face In/ Face Out, No Setting Change Required		
FONTS / SYMBOLOGIES					
r orers / stringozooles	Standard Pitman		II C M M/D M/I VC VII VM VD VI	V20 V21 V22 V22 V24 OCD A OCD B	
Internal Fonts	Standard Bitmap		U, S, M, WB, WL, XS, XU, XM, XB, XL, X20, X21, X22, X23, X24, OCR-A, OCR-B 30 SATO Fonts, 2 Outline Fonts		
	Scalable Fonts		Majour Latin and Pan-European Code Pages (WGL4), GB18030 (simplified), KSX1001 (Korean),		
	Encoding		BIG5 (traditional), JIS, SHIFT-JIS, UTF-8 and UTF-16BE also supported		
Linear Jarcode		UPC-A/UPC-E, JAN/EAN-13/8, CODE39, CODE93, CODE128, GS1-128(UCC/EAN128), CODABAR(NW-7), ITF, Industrial 2 o 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 CHARACTER	ISTICS AND INT	EGRATION			
Standard Interfaces			USB 2.0 (Type A. & B). Ethernet (IPv4/v.	6) RS232C IEEE1284 EXT Bluetooth Ver 3	0°2 NEC
Optional Interface			USB 2.0 (Type A & B), Ethernet (IPv4/v6), RS232C, IEEE1284, EXT, Bluetooth Ver. 3.0°2, NFC 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 CHARACTER	PISTICS		Times of E (SAI O Darcode I little)		
	MOTICS		AC100V AC240V 100V F0.VC II A	to receive Device Con 1	
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 RG	В)	
MISCELLANEOUS					
Standards & Agency Approvals			Please contact your nearest SATO sale	s 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 Customized 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 Che	cking		Thermal head check, Paper end detect	ion, Ribbon end detection, Test print, Head	lift detection
Functions – Self Diagnosis Cher OPTIONS	cking		Thermal head check, Paper end detect	ion, Ribbon end detection, Test print, Head	lift detection











