## Technical Information

PRINTING SPECIFICATION			CL4NX Plus			
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)		
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Max. Print Area	Width, mm (inch)		104mm (4.09")	4500 (50.05)	100 (15 75)	
Length, mm (inch) Processor		h)	2500mm (98.42") Dual CPU & Dual OS: CPU1: 80	1500mm (59.05") 00MHz for Linux OS, CPU2: 800	400mm (15.75")  MHz for ITRON OS	
Printer Memory		CPU1: 2GB ROM, 256MB RAM, CPU2: 4MB ROM, 64MB RAM				
CONSUMARI E SE	PECIFICATION	(Recom	mended to use consur		or supplied by SATO)	
Sensor Type	Len lentilon	(Mecon)	I-mark Sensor (Reflective), Lak		or supplied by sitt of	
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			Maximum 265mm (10.43")			
	Diameter		Core Diameter: Ø76mm (3.0"), Ø101mm (4.0")			
	Wind Direction		Face In / Face Out. No Setting Change Required			
Label Size (Without Liner) Ribbon	Continuous Tear-off / Cutter	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")	
	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")*1	10 - 397mm (0.39" - 15.63")*1	10 - 397mm (0.39" - 15.63")*1	
		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")	
	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 / SYMBOL						
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 Omnidirectional, 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 Symbologic			
Print Direction		Character Data Rotation: 0°, 90°, 180°, 270°				
User Downloadable Fonts, Graphics or Formats		mats	Maximum 100MB			
INTERFACE CHAR	ACTERISTICS	AND IN	TEGRATION			
Standard Interfaces		USB 2.0 (Type A & B), Ethernet (IPv4/v6), RS232C, IEEE1284, EXT, Bluetooth Ver. 3.0°2, NFC				
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 CHAP					- 33	
	IACTEMBTICS		AC100V - AC240V+10% 50/6	O Hz Auto ranging Power Sur	anh.	
Power Requirements  Operating			AC100V ~ AC240V±10%, 50/60 Hz, Auto-ranging Power Supply  0 - 40°C / 30 - 80% RH (Without Condensation)			
Environment	Operating Linerless		5 - 35°C / 30 - 75% RH (Without Condensation)			
Liviolineit	Storage		-20 - 60°C / 30 - 90% RH (Without Condensation)			
Dimensions	Storage		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				,		
			Please Contact your Moarcat C	ATO Salas Ponrocontativo Da-	Parding Agency Approvals for your Pagion	
Standards & Agency Approvals		Please Contact your Nearest SATO Sales Representative Regarding Agency Approvals for your Region  Micro Label Printing, SATO Application Enabled Printing, SATO Online Services, 18 User Guidance Videos on LCD, Space for Customized Videos,				
Functions – Useful Features		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 Diagno	sis Checking		Thermal Head Check, Paper E	nd Detection, Ribbon End Det	ection, Test Print, Head Lift Detection	
OPTIONS						
Accessories			Cutter, Linerless Cutter, Dispo Cover, UHF RFID kit, HF RFID k		inder, Real-Time Clock, Wireless LAN, Barcode Checker Stand, External Rewinder, Exter	
RFID SPECIFICATI	ON (Optional	)				
UHF and HF <sup>-2</sup> Options Available	Standard		UHF: ISO/IEC 18000-6 Type C HF: ISO/IEC 15693 & ISO/IEC 14443 Type A Phase Jitter Modulation: 100% Accuracy Stack Tags			
	Frequency		868 - 960MHz and 13.56MHz			
	Protocols		EPC Gen 2 Class 1, NXP, Impinj, Alien & others			
	RFID Features		Fully Integrated UHF RFID Reader / Encoder Module. SRA(SATO RF Analyze) Installed. 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			
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<sup>\*1</sup> Length of 10 to 27mm is only available for Thermal Transfer mode \*2 Please contact your nearest SATO sales representative for availability





# CL4NX Plus

Best-in-class Thermal Industrial Printer





## The printer model to optimise your RFID applications

Businesses can save labor, speed up their operations, and enjoy many advantages from using the RFID technology. RFID tags/labels can be read in bulk, without making contact, and their data be rewritten as often as needed. They can be used widely, for apparel tagging or asset tracking, and at factories or hospitals to manage products and work processes or medical devices and pharmaceuticals.

CL4NX Plus is an RFID model that can print text and barcodes on UHF, HF and NFC tags/labels, and at the same time, encode data in their embedded chips. Besides being equipped with on-screen menus that save users the trouble of adjusting antenna position manually, the printer is also capable of checking RFID chips prior to encoding to verify their readiness for use and prevent subsequent failures.

## Rich in RFID capabilities and features

## SATO RF Analyze (SRA) function

Optimize antenna and inlay settings automatically for fast and stable encoding. Users can find the best settings to encode RFID tags/labels when their attributes vary randomly due to lot differences or adjust write/read conditions as needed when encoding errors occur.

## Function for registering commonly used settings I III

Save write/read conditions for up to ten RFID tag/label types. Users can easily select and load these profiles to encode multiple media with the same printer.

# Compatibility with specialty RFID tags/labels

Support the encoding of various RFID tag/label types including tags used with metals or for other special applications, with a special encoder antenna that provides output power up to 30dBm.

\*Some media types may require prior testing; please contact your nearest SATO office to find out more

## **Key Applications**

## Manufacturing

## Raw material to product labelling for greater traceability

Built for tough industrial use, CL4NX Plus helps manufacturers achieve traceability from raw materials to finished products, which is important when recalls become necessary. The printer also serves as a key component in RFID systems for managing returnable transport items (RTIs) and other factory assets.

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.

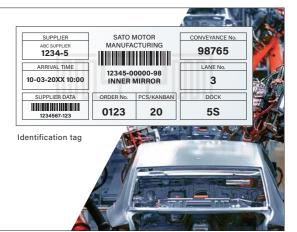


#### Automotive

## 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.



### Retail/Apparel

# Back room to in-store visibility 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.



## **Transport & Logistics**

# Supply chain labelling for enhanced agility and visibility

Suitable for labelling across the supply chain, from goods receiving to inventory management and shipping, user can save various label templates in CL4 NX Plus for easy selection and setup.

Printer is compatible with a wide range of labels (including special types such as 3-layer labels) used for the shipping and return of goods. It also supports high speed and volume printing to meet the demands of rising e-commerce orders.



# OnSite/ CL4NX Plus

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# We meet all your printing needs with one complete solution

## **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

## 30% more media

More media per roll and longer ribbon mean lesser downtime for

## Minimal downtime

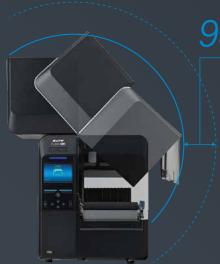


View status of all printers at a glance and perform proactive preventative maintenance before error occurs. PureLine™ platen roller provides visual indication of the degree of wear to enable



## **Durable & functional design**

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



for greater stability and durability.



## **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 and maintenance

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







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.



## 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 need for a PC.

## Multiple interfaces

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



We speak your language and integrate seamlessly into your business

# Expand the scope of your label printing applications

AEP



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 need for 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.



IoT solution to keep your operations running & visible

SOS



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

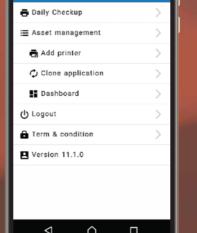
Monitor printers centrally (view operation status, print mileage, expected replacement required for expendable parts, etc.) at a glance and perform preventative maintenance before issues occur. SOS send notification via email according to the situation of your printer and resolve errors immediately.

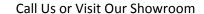




## Manage printers at multiple locations

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







## 1300 737 998

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#### Point of Sale & Barcode Solutions

POSMarket specialises in providing point of sale (POS), barcode and mobile data solutions for smart businesses. We service all industries including retail and hospitality, transport and logistics, government, healthcare, manufacturing and warehousing. Our expert team can provide solutions that can save your business money today.

## Shop By Department



#### **Barcode Scanners**

- Barcode Readers
- Barcode Software
- Data Collectors



#### Mobile Computers

- Mobile Computers
- Data Collectors
- Vehicle Computers



## **Label Printers**

- Desktop Printers
- Industrial Printers
- Mobile Printers



#### Point of Sale

- POS Systems Receipt Printers
- Scales



#### **ID Card Printing**

- ID Card Printers ID Software Card Printer Supplies



#### Media & Accessories

- Labels
- Ribbons
- Paper Rolls



#### Software

- Inventory Software
- Asset Tracking
- Barcode Software



#### Wireless

- Wifi Systems
- Pager Systems Site Surveys



## RFID

- **RFID** Printers
- RFID Readers
- RFID Tags

## Shop By Industry



#### Education/Libraries

Timesaving printing solutions to meet all your staff, student & asset identification needs. Need Labels and Printers? From scanners to receipt printers, whatever your needs, we are here to help



#### **Retail Stores**

Keep customers coming back and keep stock from running out. Check out our range of scanners, cash drawers, receipt printers and cash registers.



### Cafes/Restaurants

We can help you to decrease lines for your customers, complete tableside transactions, or reward patrons with loyalty cards. From cash registers to touch screen systems we can assist.



## Warehouse Management

Our superior warehousing solutions will allow your business to provide comprehensive, up-to-date information and streamline your processes to improve efficiency



#### Construction

Keep track of your inventory and stop inventory shinkage. Our inventory tracking software allows you to easily keep control of your stock



#### Hospitals/Healthcare

Improve patient care with the accurate identification of patients, medications, samples, treatments, lab results & records. We have a huge range of label printers, consumables & scanners.



#### Transport & Logistics

Track materials through your facility or through your supply chain using labels, barcode scanners and portable data terminals. Optimize our production and information flows.



#### Government

We can supply you with all your needs, from receipt printers and cash drawers, to barcode scanners and label printers. Less paperwork, data entry and time spent looking up records.



## Mining

Rugged identification solutions help manage assets from the ground up From portable data terminals and scanners to software and printers, we can find a solution to meet your needs.

## Shop By Brand















































