Technical Information

Printing Method Print Mode Print Resolution Max. Print Speed Max. Print Area Processor Printer Memory CONSUMABLE SP Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Width, mm (inch) Length, mm (inch) ECIFICATION (Recom Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser Linerless	Width Length Width Length Width	0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	12 dots/mm (305 dpi) 14 ips (355 mm/sec) 1500mm (59.05") Linux OS, CPU2: 800MHz for ITRON OS B ROM, 64MB RAM red or supplied by SATO) nsor (Transmissive) r face stock, Synthetics and Continuous st	24 dots/mm (609 dpi) 6 ips (152 mm/sec) 400mm (15.75") tock 22 - 128mm (0.87" - 5.04") 6 - 397mm (0.24" - 15.63")
Print Resolution Max. Print Speed Max. Print Area Processor Printer Memory CONSUMABLE SP Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Length, mm (inch) ECIFICATION (Recom Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser	Width Length Width Length Width	8 dots/mm (203 dpi) 14 ips (355 mm/sec) 104mm (4.09") 2500mm (98.42") Dual CPU & Dual OS: CPU1: 800MHz for L CPU1: 2GB ROM, 256MB RAM, CPU2: 4MI couse consumables manufactu I-mark Sensor (Reflective), Label Gap Sei Roll or fan-fold die cut labels, Plain paper 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	12 dots/mm (305 dpi) 14 ips (355 mm/sec) 1500mm (59.05") Linux OS, CPU2: 800MHz for ITRON OS B ROM, 64MB RAM red or supplied by SATO) nsor (Transmissive) r face stock, Synthetics and Continuous sto	6 ips (152 mm/sec) 400mm (15.75") tock 22 - 128mm (0.87" - 5.04")
Max. Print Speed Max. Print Area Processor Printer Memory CONSUMABLE SP Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Length, mm (inch) ECIFICATION (Recom Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser	Width Length Width Length Width	14 ips (355 mm/sec) 104mm (4.09") 2500mm (98.42") Dual CPU & Dual OS: CPU1: 800MHz for L CPU1: 2GB ROM, 256MB RAM, CPU2: 4MI 20 use consumables manufactu I-mark Sensor (Reflective), Label Gap Sei Roll or fan-fold die cut labels, Plain papei 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	14 ips (355 mm/sec) 1500mm (59.05") Linux OS, CPU2: 800MHz for ITRON OS B ROM, 64MB RAM red or supplied by SATO) nsor (Transmissive) r face stock, Synthetics and Continuous stock (4.0") equired 22 - 128mm (0.87" - 5.04")	6 ips (152 mm/sec) 400mm (15.75") tock 22 - 128mm (0.87" - 5.04")
Max. Print Area Processor Printer Memory CONSUMABLE SP Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Length, mm (inch) ECIFICATION (Recom Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser	Width Length Width Length Width	104mm (4.09") 2500mm (98.42") Dual CPU & Dual OS: CPU1: 800MHz for L CPU1: 2GB ROM, 256MB RAM, CPU2: 4MI to use consumables manufactu I-mark Sensor (Reflective), Label Gap Sei Roll or fan-fold die cut labels, Plain papei 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	1500mm (59.05") Linux OS, CPU2: 800MHz for ITRON OS B ROM, 64MB RAM red or supplied by SATO) Insor (Transmissive) r face stock, Synthetics and Continuous stock (4.0") Equired 22 - 128mm (0.87" - 5.04")	400mm (15.75") tock 22 - 128mm (0.87" - 5.04")
Processor Printer Memory CONSUMABLE SP Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Length, mm (inch) ECIFICATION (Recom Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser	Width Length Width Length Width	2500mm (98.42") Dual CPU & Dual OS: CPU1: 800MHz for L CPU1: 2GB ROM, 256MB RAM, CPU2: 4MI to use consumables manufactu I-mark Sensor (Reflective), Label Gap Ser Roll or fan-fold die cut labels, Plain paper 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	Linux OS, CPU2: 800MHz for ITRON OS B ROM, 64MB RAM red or supplied by SATO) nsor (Transmissive) r face stock, Synthetics and Continuous st	22 - 128mm (0.87" - 5.04")
CONSUMABLE SP Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser	Width Length Width Length Width	Dual CPU & Dual OS: CPU1: 800MHz for L CPU1: 2GB ROM, 256MB RAM, CPU2: 4MI TO use consumables manufactu I-mark Sensor (Reflective), Label Gap Ser Roll or fan-fold die cut labels, Plain paper 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	Linux OS, CPU2: 800MHz for ITRON OS B ROM, 64MB RAM red or supplied by SATO) nsor (Transmissive) r face stock, Synthetics and Continuous st	22 - 128mm (0.87" - 5.04")
CONSUMABLE SP Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser	Width Length Width Length Width	CPU1: 2GB ROM, 256MB RAM, CPU2: 4MI to use consumables manufactu I-mark Sensor (Reflective), Label Gap Ser Roll or fan-fold die cut labels, Plain paper 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	B ROM, 64MB RAM red or supplied by SATO) nsor (Transmissive) r face stock, Synthetics and Continuous st (4.0") equired 22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")
CONSUMABLE SP Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser	Width Length Width Length Width	Ito use consumables manufactu I-mark Sensor (Reflective), Label Gap Sei Roll or fan-fold die cut labels, Plain papei 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	red or supplied by SATO) nsor (Transmissive) r face stock, Synthetics and Continuous st (4.0") equired 22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")
Sensor Type Media Type Media Thickness Label Shape Label Size Without Liner)	Diameter Wind Direction Continuous Tear-Off / Cutter Dispenser	Width Length Width Length Width	I-mark Sensor (Reflective), Label Gap Set Roll or fan-fold die cut labels, Plain paper 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	nsor (Transmissive) r face stock, Synthetics and Continuous stock (4.0") equired 22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")
Media Type Media Thickness Label Shape Label Size Without Liner)	Wind Direction Continuous Tear-Off / Cutter Dispenser	Length Width Length Width	Roll or fan-fold die cut labels, Plain paper 0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	r face stock, Synthetics and Continuous st (4.0") equired 22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")
Abel Shape Label Size Without Liner)	Wind Direction Continuous Tear-Off / Cutter Dispenser	Length Width Length Width	0.060 - 0.268mm (0.0024" - 0.011") Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	(4.0") equired 22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")
abel Shape abel Size Without Liner)	Wind Direction Continuous Tear-Off / Cutter Dispenser	Length Width Length Width	Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	equired 22 - 128mm (0.87" - 5.04")	
abel Size Without Liner)	Wind Direction Continuous Tear-Off / Cutter Dispenser	Length Width Length Width	Core diameter: Ø76mm (3.0"), Ø101mm Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	equired 22 - 128mm (0.87" - 5.04")	
Label Size Without Liner)	Continuous Tear-Off / Cutter Dispenser	Length Width Length Width	Face In / Face Out. No Setting Change Re 22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	equired 22 - 128mm (0.87" - 5.04")	
Without Liner)	Continuous Tear-Off / Cutter Dispenser	Length Width Length Width	22 - 128mm (0.87" - 5.04") 6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")	
Without Liner)	Tear-Off / Cutter Dispenser	Length Width Length Width	6 - 2497mm (0.24" - 98.30") 22 - 128mm (0.87" - 5.04")	1 1	
Without Liner)	Dispenser	Width Length Width	22 - 128mm (0.87" - 5.04")	0 (U.Z.1 JU.JT)	0 - 39/11111 10 /4" - 15 65"1
Without Liner)	Dispenser	Length Width		22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")
Without Liner)		Width	17 - 2407mm (0.67" - 09.30")		
Ribbon			17 - 2497mm (0.67" - 98.30") 22 - 128mm (0.87" - 5.04")	17 - 1497mm (0.67" - 58.94") 22 - 128mm (0.87" - 5.04")	17 - 397mm (0.67" - 15.63") 22 - 128mm (0.87" - 5.04")
	Linerless		, , , , , ,		
	Linerless	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")
ONTS / SYMPOLO	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")		
EONTS / SVMBOLO	Other		Core diameter: Ø25.4mm (1"), Wind direc	ction : Face In/ Face Out, No Setting Chan	ge Required
ON 13 / 3 TWIBULC	OGIES				
	Standard Bitmap		U, S, M, WB, WL, XS, XU, XM, XB, XL, X20, X21, X22, X23, X24, OCR-A, OCR-B		
Internal Fonts	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 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 Composite Symbologies		
Print Direction			Character data rotation: 0°, 90°, 180°, 270	0.	
User Downloadable Font	ts, Graphics or Formats		Maximum 100MB		
NTERFACE CHARA	ACTERISTICS AND INT	regratio	N		
Standard Interfaces			USB 2.0 (Type A & B), Ethernet (IPv4/v6),	RS232C, IEEE1284, EXT, Bluetooth Ver. 3.0)*², NFC
Optional Interface				EEE 802.11 a/b/g/n Dual Band (2.4GHz, 50	<u> </u>
Remote Access			SNMP Ver.3, HTTPs		
Supported printer protoc	cols			nguage) Emulation Language: Auto dete	ect - SZPL, SDPL, SIPL, STCL, SEPL
OPERATING CHAR					
Power Requirements	J. C. L. C. L. C.		AC100V ~ AC240V±10%, 50/60 Hz, Auto-	-ranging Power Supply	
,q	Operating		0 - 40°C / 30 - 80% RH (without condensation)		
Environment	Operating Linerless		5 - 35°C / 30 - 75% RH (without condensation)		
omicit	Storage		-20 - 60°C / 30 - 90% RH (without condensation)		
l Dimensions			271mm (10.67") × 457mm (18.00") × 321mm (12.64")		
Weight			15.1kg (33.28 lbs)	(12.01)	
Display Panel			TFT Full Color LCD, 3.5"(320 x 240 RGB)		
. ,					
MISCELLANEOUS	provale		Please contact view many of CATO	oprocontativo re-sadis-s-	le for your ragion
Standards & Agency Approvals Functions – Useful features			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 Custom Videos, Multi Language Support LCD Message (31 Languages), Energy Saving, Large Status LED, Multiple Interfaces-Auto-Switch USB Memory for Data Copy, Status Return, Alarm Sound		
Functions – Self Diagnosi	is Checking			n, Ribbon end detection, Test print, Head	l lift detection
OPTIONS			and a detection	, secential, lest print, freud	
JI-HONS			Cuttor Linorlass Cuttor Disponsor with In	nternal Liner Rewinder, Real-Time Clock, V	Mirology I ANI Raycodo Chacker Stand











^{*1} Length of 10 to 27mm is only available for Thermal Transfer mode

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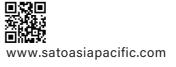


Further Beyond Expectations





Best-in-class 4" Thermal Industrial Printer



Designed for track and trace operations globally

The rise of IoT is driving digital transformation across industries. Increasingly, businesses used 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.

Key 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.



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

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.



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.

2

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

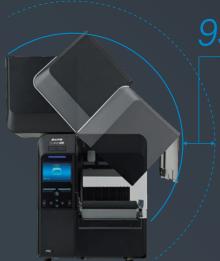


View status of all printers at a glance and perform proactive preventative maintenance before error occurs. PureLine™ platen roller provides visual indication of the degree of wear to enable preventative maintenance.



Durable & functional design

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



95 mm

for greater stability and durability.



Isability

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.



■ [1] ■ X A [3] → N O ♥ 10.02
SOS Demo_company01

A Daily Checkup

■ Asset management
 ➡ Add printer
 ➡ Clone application
 ➡ Dashboard

 ➡ Dashboard

■ Term & condition

■ Version 11.1.0

IoT solution to keep your operations running & visible

SOS



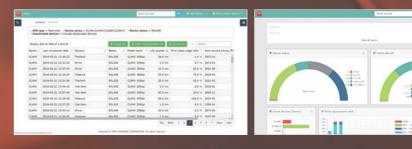
By monitoring your printers 24/7 via cloud, SATO Online Services enables proactive preventative maintenance and helps you reduce printer downtime by as much as 86%.

asad 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.