Technical Information

PRINTING SPECIFICATION CL4NX Plus CL6NX 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) 8 dots/mm (203 dpi) Max. Print Speed 14 ips (355 mm/sec) 14 ips (355 mm/sec) 6 ips (152 mm/sec) 10 ips (254 mm/sec) Max. Print Area Width, mm (inch) 104mm (4.09") Standard 152mm(5.98" Extension 167.5mm(6.60") Processor Dual CPU & Dual OS: CPU1: 800MHz for Linux OS, CPU2: 800MHz for Linux OS, CPU2: 800MHz for ITRON OS		
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	1500mm (59.05")	
Drinter Mamory CDU1, 2CD DOM 25CMD DAM CDU2, 4MD DOM CAMP DAM		
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")		
Maximum 265mm (10.43")		
Label Shape Diameter Core diameter: Ø76mm (3.0"), Ø101mm (4.0")		
Wind Direction Face In / Face Out. No Setting Change Required		
Continuous Width 22 - 128mm (0.87" - 5.04") 22 - 128mm (0.87" - 5.04") 22 - 128mm (0.87" - 5.04") 47 - 177mm (1.85" - 6.97")	47 - 177mm (1.85" - 6.97")	
Length 6 - 2497mm (0.24" - 98.30") 6 - 1497mm (0.24" - 58.94") 6 - 397mm (0.24" - 15.63") 6 - 2497mm (0.24" - 98.30")	6 - 1497mm (0.24" - 58.94")	
Tear-Off / Cutter Width 22 - 128mm (0.87" - 5.04") 22 - 128mm (0.87" - 5.04") 22 - 128mm (0.87" - 5.04") 47 - 177mm (1.85" - 6.97")	47 - 177mm (1.85" - 6.97")	
Label Size Length 17 - 2497mm (0.67" - 98.30") 17 - 1497mm (0.67" - 58.94") 17 - 397mm (0.67" - 15.63") 17 - 2497mm (0.67" - 98.30")	') 17 - 1497mm (0.67" - 58.94")	
(Without Liner) Width 22 - 128mm (0.87" - 5.04") 22 - 128mm (0.87" - 5.04") 47 - 177mm (1.85" - 6.97")	47 - 177mm (1.85" - 6.97")	
Length 10 - 397mm (0.39" - 15.63")	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")	=	
DIZE), Max. Roll Diameter: 90mm (3.5")	
Ribbon Max. Roll Diameter: 90mm (3.5"), Ribbon width: 39.5mm (1.55") to 128mm (5.04") Ribbon width: 59mm (2.32" Other Core diameter: Ø25.4mm (1"), Wind direction: Face In/ Face Out, No Setting Change Required) to 177mm (6.97-)	
FONTS / SYMBOLOGIES		
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	ET IIC	
Encoding Major Latin and Pan-European Code Pages (WGL4), GB18030 (simplified), KSX1001 (Korean), BIG5 (traditional), JIS, SH UTF-8 and UTF-16BE also supported	FI-JIS,	
	UPC-A/UPC-E, JAN/EAN-13/8, CODE39, 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 Expanded, GS1 D	
2D Symbologies QR Code, Micro QR Code, PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro QR Code, Micro QR Code, Micro QR Code, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro PDF, Maxi Code, GS1 Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro PDF, Maxi Code, GS1 Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro PDF, Maxi Code, GS1 Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro PDF, Maxi Code, GS1 Data Matrix (ECC200), Aztec Code, GS1QR Code, Micro PDF, Maxi Code, GS1QR Code, Micro PDF, Maxi Code, GS1QR Code, Micro PDF, Maxi Code, Micro PDF, Micro P	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°2, NFC		
Optional Interface Wireless LAN, WiFi Certified, WiFi Direct, IEEE 802.11 a/b/g/n Dual Band (2.4GHz, 5GHz)		
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Remote Access SNMP Ver.3, HTTPs		
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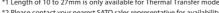














For more details, please visit our website



Further Beyond



CL4NX Plus CL6NX Plus

Best-in-class Thermal Industrial Printer



Designed for track and trace operations globally

With our extensive experience in providing solutions to serve customers' on-site needs, we are proud to introduce CL4/6NX Plus.

The industry's leading 4-inch and 6-inch industrial thermal printer designed to meet the requirements of mid-range to high-end label printing environments.



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.

CL4/6NX 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.

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, CL4/6NX 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 CL4/6NX 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

CL4/6NX 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, CL4/6NX 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 CL4/6NX 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.



CL4NX Plus Powered On Site / CL6NX Plus

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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

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



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 CL4/6NX 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

for greater stability and durability.

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

nghiy durable thermal head enable ong-term high-quality printing.

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.

CL4/6NX 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 CL4/6NX 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 CL4/6NX 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.



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5 Daily Checkup

■ Asset management
 ♣ Add printer
 ♣ Clone application
 ■ Dashboard
 ♠ Logout

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%.

*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.