

CLNX Plus Series

Next Generation 4" & 6" printers









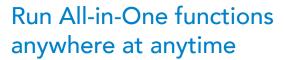








CLNX Plus Series



The CLNX Plus Series are SATO's next generation of thermal printers with advanced support for barcode symbologies, character sets and RFID encoding.

A product of SATO's global R&D network the CLNX Plus Series incorporates value-added features in a world-class design to deliver a printing solution that goes beyond expectations.



Optimise asset management, increase supply visibility & expand operational ability with SATO's next generation printing solution.

Key Features

New

- Simple-to-Operate
- Plug-and-Play
- Higher precision
- Smart Head
- All-in-One
- Application Enabled Printing
- Fast speed
- RFID support



- AEP is a powerful on-board intelligence which enables customisation of the printer operation to significantly simplify labelling processes and reduce business costs
- It also allows the direct connection of common peripherals such as numeric keypads, qwerty keyboards, scanners & weighscales. Plus automatic fetch of network or cloud data. Reduces up-front costs as a PC is not essential for printing
- AEP solutions are highly flexible and are easily implemented





- LED indicator and colour displays alert operator to the printer status.
- Pre-installed guidance videos assist in error resolution and printer maintenance
- Capability to upload customised start-up screen and videos
- Advanced user interface for full operational control of print, application, I/F, and system settings via the front panel display
- Customisable GUI content and security enabled menu access allows administrators to personalise the operator experience
- Best in class 60° print head opening, tension damper, and coreless ribbon system facilitate easy media setup
- Coloured operator touch points ensure safe operation and interactions with movable parts

Dynamic Integration

- Serial, parallel, LAN, USB and Bluetooth combo interface covers all legacy and modern systems requirements. WLAN and Bluetooth optional kits are also available
- SZPL, SIPL, SDPL, STCL SEPL command emulations enable direct replacement of printers in legacy applications
- Auto-switching interface setting and media auto-calibration to adjust sensor levels for faster setup time between print jobs
- 30 + display languages, 40+ print character sets, and 15 SATO resident fonts, additional user downloadable space provide universal format coverage
- All major agency approvals permit global deployment for large enterprises or future expansion potential for growing startups
- NFC chip enables fast configuration and printer status checking

SBPL/SZPL/SDPL/SIPL/STCL/SEPL









High Performance & Sustainable Innovations

- Head check function to ensure barcode printing accuracy
- Label and Ribbon Near-End & End sensors
- UHF and HF RFID options support a wide variety of tags and include adjustable antenna system for optimal inlay encoding
- Optional linerless media kit* eliminates the waste associated with conventional label production

- High speed data processing equals faster first label out and print job throughput
- Coreless ribbon take up with One-touch release
- 10 preset darkness levels with finite adjustment between presets for optimal print performance setting
- Energy Star power efficiency certification

*only available for CL4NX Plus

Model Lineup



Standard

- Tear-off bar for manual media separation
 - Label holder adjustable to support up to 10" OD media rolls
 - External media slots for rear or bottom feed applications

Cutter

- Front mount quillotine cutter unit
- Rotary Cutter available for CL4NX Plus
- Single item or batch print job cut settings
- Long lasting blade life



Dispenser

- Dispenser unit including peel bar for liner separation
- Additional internal liner take-up for active peel applications









Options



Linerless

- PuretechTM Linerless modified cutter unit with on demand sensor
- Anti-adhesive Puretech™ platen roller, media path and sensor cover
- Pureline™ visible wear indicator



Barcode Checker

- Simple and inexpensive option
- Confirms that the barcode content is correct.
- Void marks and reprints the label if necessary



Real Time Clock

- Time and date tracking RTC
- Enable timestamp labelling



Industrial Durability

environment

durability

platen roller.

Metal casing including front panel and

• Die-cast Aluminium frame, print and

to ensure print quality and printer

• 1 year global warranty for printer

Functional Benefits

internal roll capacity

downtime

and cable hook

side covers protects against any industrial

ribbon mechanism provide solid stability

including installed options. Long lasting

30 kilometre guaranteed print head and

Bi-fold cover allows compact design and

Supports internal, external, clockwise and

counter-clockwise rotational media types.

 Field installable options, snap in print head, and tool-less platen replacement minimise

External media inlets, mounting fixtures,

reduces workspace requirement

Adjustable label holder for increased

Wireless LAN

- 802.11 a/b/g/n
- 2.4/5GHz dualband switching
- Wi-Fi Direct and CCX Cisco certified



RFID Encoder

- UHF ISO/IEC 18000-6 or HF ISO/ IEC 15693 & 14443
- PJM 100% accuracy & close stack tagging
- Short pitch encoding support



CLNX Plus Technical Specifications

Printing Meth Print Mode Print Resoluti Max. Print Sp Max. Print Ar Processor Printer Memo CONSUMABI (Recommended Sensor Type	ion peed Width rea Length		8 dots/mm (203 dpi) 14 ips (355 mm/sec)		24 dots	Cutter, Dispenser, s/mm (609 dpi)	, Linerless, C	ct Thermal / Thermal Tra ontinuous, Tear-off, Cutt ots/mm (203 dpi)	er, Dispenser.	
Print Resoluti Max. Print Sp Max. Print Ar Processor Printer Memo CONSUMABI (Recommended	width rea Length		8 dots/mm (203 dpi) 14 ips (355 mm/sec)	12 dots/mm (305 dpi)	24 dots	•			·	
Max. Print Sp Max. Print Ar Processor Printer Memo CONSUMABL (Recommended	width rea Length		14 ips (355 mm/sec)			s/mm (609 dpi)	8 do	ots/mm (203 dpi)	10 -1-1-/ (205 -1-1)	
Max. Print Ar Processor Printer Memo	Width rea Length			14 ips (355 mm/sec)	/ : /1				12 dots/mm (305 dpi)	
Processor Printer Memo CONSUMABL (Recommended	rea Length		104 (4.00%)		o ips (i	52 mm/sec)	2-10	ips, (default 6 ips)	2-8 ips, (default 6 ips)	
Processor Printer Memo CONSUMABL (Recommended	Length		104mm (4.09")				167	.5 mm (6.5")		
Printer Memo CONSUMABL (Recommended		1	2500mm (98.42")	1500mm (59.05")	400mm	n (15.75")	203	dpi: 2500mm	305 dpi: 1500mm	
CONSUMABL (Recommended				Dual CPU & Dual OS: CPU1: 800MHz for Linux OS, C						
(Recommended	ory			CPU1	: 2GB RO	OM, 256MB RAM, C	CPU2: 4MB R	OM, 64MB RAM		
	LE SPECIFIC	ATION	CL4NX PLUS				CL6	CL6NX PLUS		
Sensor Type	to use consu	mables man	ufactured or supplied by SATO)						
				I-ma	ark Senso	or (Reflective), Labe	el Gap Senso	r (Transmissive).		
Media Type				Roll or fan-fold di	ie cut labe	els, Plain paper fac	ce stock, Syn	thetics and Continuous s	stock.	
Media Thickness		0.060 - 0.268mm (0.0024" - 0.011")								
Label Shape	Diameter abel Shape		Maximum 265mm (10.43"), Core diameter: Ø76mm (3.0"), Ø101mm (4.0")					Maximum 220mm (8.6"), Core diameter: Ø76mm (3.0"), Ø101mm (4.0")		
	Wind Direction		Face In / Face Out. No Setting Change Required.							
		Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" -	5.04") 22	2 - 128mm (0.87" - 5.0	.04") 47-1	77mm (1.85" - 6.97")	47-177mm (1.85" - 6.97")	
	Continuous Tear-off/ Cutter Dispenser Linerless	Length	6 - 2497mm (0.24" - 98.30")	6 - 1497mm (0.24" -	58.94") 6	- 397mm (0.24" - 15.6	.63") 6 - 2	497mm (0.24" - 98.3")	6 - 1497mm (0.24" - 58.94")	
		Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" -	5.04") 22	2 - 128mm (0.87" - 5.0	.04") 47-1	77mm (1.85" - 6.97")	47-177mm (1.85" - 6.97")	
Label Size (Without		Length	17 - 2497mm (0.67" - 98.30					77mm (1.85" - 6.97")	17 - 1497mm (0.67" - 58.94")	
		Width	22 - 128mm (0.87" - 5.04")			2 - 128mm (0.87" - 5.0		77mm (1.85" - 6.97")	47-177mm (1.85" - 6.97")	
Liner)		Length	10 - 397mm (0.39" - 15.63")					397mm (0.39" - 15.63")	10 - 397mm (0.39" - 15.63")	
		Width	60 - 118mm (2.36" - 4.65")			0 - 118mm (2.36" - 4.6		available	Not available	
		Length	30 - 120mm (1.18" - 4.72")			0 - 120mm (1.18" - 4.7		available	Not available	
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")				.55")	Max. Length: 600m (1968.5"). 450m (1476.4") when ribbon width is 39.5mm (1.55") Max. Roll Diameter: 90mm (3.5") when ribbon width: 39.5mm (1.55") to 177mm (7.0")		
,	Other		Core diame	eter: Ø25.4mm (1"), W	ind directi	ion : Face In/ Face (Out. No Setti	No Setting Change Required, Tubeless wind method.		
FONTS / SYMBOLOGIES		CL4NX PLUS					CL6NX PLUS			
	Standard	Bitmap	U, S, M, WB, WL, XS, XU, XM, XB, XL, X20, X21, X22, X23, X24, OCR-A, OCR-B							
Internal	Scalable Fonts		30 SATO Fonts, 2 Outline Fonts.							
Fonts	Scalable Folits		Major Latin and Pan-European Code Pages (WGL4), GB18030 (simplified), KSX1001 (Korean),							
	Encoding		BIG5 (traditional), JIS, SHIFT-JIS 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 Directio					Chara	acter data rotation	n: 0°, 90°, 180	°, 270°		
User Downloa Graphics or F		ts,				Maximum 1	100MB			
INTERFACE CHARACTERISTICS AND INTEGRATION			CL4NX PLUS				CL6	NX PLUS		
Standard Interfaces		USB 2.0 (Type A & B), RS232C, IEEE1284, EXT, NFC, Ethernet (IPv4/v6) supporting:TCP/IP, LPR, FTP, SNMPv3, NTP, HTT DHCPv4, Stateless Auto Configuration, Stateful Auto Configuration (DHCPv6)								
Optional Interface		Wireless LAN, WiFi Certified, WiFi Direct, IEEE 802.11 a/b/g/n/ac Dual Band (2.4GHz, 5GHz), Security: WEP, WPA, WPA2, Dynamic WEP, DHCP Option 81. Bluetooth Ver. 3.0								
Remote Acce	ess				9	SNMP Ver.3, HTTP:	s, SATO Aler	te		
Supported pr	rinter proto	cols	Standard: S	BPL (SATO Barcode F	Printer La	nguage) Emulation	n Language: /	Auto detect - SZPL, SDP	L, SIPL, STCL, SEPL	
OPERATING (CHARACTE	RISTICS	CL4NX PLUS				CL6	NX PLUS		
Power Requir			AC100V ~ AC240V±109	%, 50/60 Hz, Auto-rai	nging Pov	wer Supply			60 Hz, Auto-ranging Power Supply	
	Operating Operating		0 - 40°C / 30 - 80% RH (without condensation)							
Environment										
			5 - 35°C / 30 - 75% RH (without condensation)							
	Storag	е	-20 - 60°C / 30 - 90% RH (with			(without con-	out condensation)			
Dimensions				2	271mm (1	0.67") × 457mm (1	18.00") × 321	mm (12.64")		
Weight				15.1kg (33.28	lbs)			20K	g (42 lbs)	
vveigni	Display Panel				TFT	Full Color LCD, 3.	3.5"(320 x 240	RGB)		
	MISCELLANEOUS		CL4NX PLUS				CL6	NX PLUS		
Display Panel		ndard	UHF:a ISO 18000-6 To Jitter Modulation: 10	ype C HF: ISO 15695 00% reading accuracy				UHF: ISO 18000-6 Type C		
Display Panel	options star			Fully integrated UHF RFID Reader / Encoder Module. 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.						
Display Panel MISCELLANI	•		Fully integrated UHF I	e RFID power setting	s allow us	sers to use individu	ual transpond	der sizes, DIP (Direct Inla	y Printing) allows use of short	
Display Panel MISCELLANI UHF and HF	es		Fully integrated UHF I programming. Multiple I Micro Label P Space for Cus	e RFID power setting bitch labels. PWP allo rinting, SATO Applica tomized Videos, Mul	gs allow us ws flexibl ation Enab ti Langua	sers to use individu le inlay positions, T oled Printing, SATC ge Support LCD M	ual transpond TID reading a O Online Serv Message (31 I	der sizes, DIP (Direct Inla	ay Printing) allows use of short barcode. Videos on Color LCD, ng, Large Status LED,	

For more information, please contact your local SATO office, or visit:
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