



Industrial Thermal Printer



CL4NX Plus

Fast • Precise • Intelligent



PERFORMANCE

- High accuracy print placement
- Best-in-class print speeds up to 14 ips
- 30% more ribbon & 80%¹ more label media capacity
- Seamless RFID encoding

SIMPLE & DURABLE

- Metal casing and large bi-fold opening for easy access
- Aluminum cast frame and print head mechanism
- Platen roller visual wear indicator
- Tool-free maintenance

INTELLIGENCE

¹ May vary depending on the media type

- Full-color LCD screen with on-board instructional videos
- Pre-installed competitive printer language emulations
- Simplified operation with Application Enabled Printing (AEP)
- Remote management with SATO Online Services (SOS)



GENERAL SPECIFICATIONS / CL4NX Plus

PRODUCT SPECIFICATIONS					
Print Resolution		203 dpi (8 dots/mm)	305 dpi (12 dots/mm)	609 dpi (24 dots/mm)	
Print Speed		14 ips (355mm/sec)	14 ips (355mm/sec)	6 ips (152mm/sec)	
Print Area		4.09" (104mm)			
Max Width					
Max Length		98.42" (2500mm)	59.05" (1500mm)	15.75" (400mm)	
Media Size (with liner)		Width	0.98" - 5.16" (25 - 131mm)		
		Continuous / Tear Off / Cutter / Dispenser			
		Linerless	2.36" - 4.65" (60 - 118mm)		
Length		Continuous	0.35" - 98.43" (9 - 2500mm)	0.35" - 59.06" (9 - 1500mm)	0.35" - 15.74" (9 - 400mm)
		Tear Off / Cutter	0.79" - 98.43" (20 - 2500mm)	0.79" - 59.06" (20 - 1500mm)	0.79" - 15.74" (20 - 400mm)
		Dispenser	Thermal Transfer: 0.51" - 15.74" (13mm - 400mm), Direct Thermal: 1.18" - 15.74" (30 - 400mm)		
		Linerless	1.18" - 4.72" (30 - 120mm)		

PRINTING SPECIFICATIONS

Method	Direct Thermal or Thermal Transfer
Mode	Continuous, Tear-off, Cutter, Dispenser, Linerless

MEDIA SPECIFICATIONS

Sensor Type	Top Sensor, Adjustable Transmissive Sensor for Gap, Adjustable Reflective Sensor for Black Mark, Paper Out, Ribbon Near-End/Out, Label Near-End
Media Type	Roll (Continuous, Die-cut, Linerless), Fan-fold, Tag, Ticket
Media	
Thickness (Label & Liner)	0.0024" - 0.011" (0.060 - 0.268mm)
Roll Diameter	Up to 10" OD (254mm) on 3" (76.0mm) ID Core
Wind	Face-in / Face-out. No Setting Change Required

RIBBON

Length	1,968.5' (600m) on 1" (25.4mm) ID Core
Width	1.55" - 5.04" (39.5 - 128mm)
Roll Diameter	Maximum 3.54" (90.0mm)
Wind	Face-in/Face-out, No Setting Change Required

SATO GENUINE CONSUMABLES

For maximum print quality and optimum use, SATO recommends the use of SATO genuine consumables.

FONT SPECIFICATIONS

17 Bitmap SATO Fonts, 30 Scalable SATO Fonts, Multi-National Language Support (47 Languages/Unicode), Single and Double Byte Fonts (Korean, Chinese, Japanese)

RFID SPECIFICATIONS

Options	UHF: Gen 2 ISO/IEC 18000-6C HF: ISO/IEC 15693 & ISO/IEC 4443
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CONNECTIVITY

Standard	USB 2.0 (Type A, Type B), Ethernet (IPv4/IPv6) on Rear Panel, USB 2.0 (Type A) on Front Panel, RS-232C, Parallel Port, EXT I/O Interface, Bluetooth® Ver. 3.0, NFC
Optional Wireless LAN Kit (Internal)	Wi-Fi® and Wi-Fi Direct® Certified, IEEE 802.11ac, Dual Band (2.4 GHz, 5 GHz)

MEMORY & PROCESSING

Dual CPU	CPU1: 2GB Flash, 256MB RAM CPU2: 4MB Flash, 64 MB RAM
User Downloadable Fonts, Videos, Graphics or Format	Maximum 100MB

USER FRIENDLY SUPPORT TOOLS

Large Status LED	Blue / Red
Audible Alerts	Adjustable Volume Setting
Self Diagnosis	Head Check, Cutter-Cover Open, Stand-by Mode, Auto-Calibration
Display Panel	3.5" Full Color LCD
Tool-Free Maintenance	Print Head Replacement and Adjustment, Visual Wear Indicator for Platen Roller (Pure Line)

MULTI-NATIONAL LANGUAGE SUPPORT

47 Printable Languages with Scalable Fonts
31 Major Latin, Pan European and Asian Languages for LCD Menu

OPERATION VIDEOS

Multiple Instructional Videos On-board, Space for Customized Videos

EMULATION

Auto Detect - SBPL®, SEPL®, SZPL®, SDPL®, SIPL® or STCL® (pre-installed), XML, Direct PDF Printing*, AEP*
*Contact your SATO Sales Representative for more information/requirements

REMOTE MAINTENANCE

SNMP Ver. 3, Web Interfaces, SATO Online Services (SOS), All-In-One Tool (AIOT), SOTI Connect

OPTIONS

Guillotine Cutter, Linerless Cutter, Dispenser with Internal Liner Rewinder, Real-Time Clock, Wireless LAN, Barcode Validator, RWG500 External Rewinder, UHF RFID, HF RFID

BARCODE SYMBOLOGIES

Barcodes	
Linear	Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-Databar™, GS1-128 (UCC/EAN128), Interleaved 2/5, Industrial 2/5, JAN 8/13, Matrix 2/5, MSI, Bookland, Postnet™, UPC-A/E
2D Symboologies	PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symboologies, Aztec

OPERATING CHARACTERISTICS

Electrical Requirements	Universal Auto-ranging Power Supply, 100-240VAC +/- 10%, 50/60Hz
Standards & Agency Approvals	Please contact SATO regarding agency approvals in your area.
Environment	
Operating	32 to 104°F (0 to 40°C), 30-80% RH, (without condensation); Linerless: 40 to 95°F (5 to 35°C) 30 - 75% RH, (without condensation)
Storage	-4 to 140°F (-20 to 60°C), 30 - 90% RH, (without condensation)

PHYSICAL CHARACTERISTICS

Dimensions	18.00" L x 10.67" W x 12.64" H (271mm x 457mm x 321mm)
Weight	33.28 lbs (15.1kg)
Construction	Die-cast Aluminum (Base, Frame, Front Cover, Ribbon Spindle, Print Head Mechanism)
Side-cover	Space saving design with large media supply window and bi-fold door for easy access in confined locations
Secure Mounting	3 Keyhole Slots on Chassis for Flat or Incline Setting

MISCELLANEOUS

Functions - Useful Features
Micro Label Printing, Standalone Printing with SATO Application Enabled Printing (AEP), SATO Online Services (SOS), Multiple Interfaces-Auto-Switching, Status Return

ROTATION

Auto-label Rotation: 0°, 90°, 180°, 270°

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