



Industrial Thermal Printer



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IPSI INTEGRATED
PRODUCTIVITY
SYSTEMS

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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)



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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	Max Width	4.09" (104mm)		
	Max Length	98.42" (2500mm)	59.05" (1500mm)	15.75" (400mm)
Media Size (with liner)	Width	Continuous / Tear Off / Cutter / Dispenser	0.98" - 5.16" (25 - 131mm)	
		Linerless	2.36" - 4.65" (60 - 118mm)	
	Length	Continuous	0.35" - 98.43" (9 - 2500mm)	0.35" - 59.06" (9 - 1500mm)
		Tear Off / Cutter	0.79" - 98.43" (20 - 2500mm)	0.79" - 59.06" (20 - 1500mm)
		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		CONNECTIVITY		BARCODE SYMBOLOGIES	
Method		Standard		Barcodes	
Direct Thermal or Thermal Transfer		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, NFC		Linear	
Mode		Optional Wireless LAN Kit (Internal)		Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-DatabarTM, GS1-128 (UCC/EAN128), Interleaved 2/5, Industrial 2/5, JAN 8/13, Matrix 2/5, MSI, Bookland, PostnetTM, UPC-A/E	
Continuous, Tear-off, Cutter, Dispenser, Linerless		Wi-Fi® and Wi-Fi Direct® Certified, IEEE 802.11ac, Dual Band (2.4 GHz, 5 GHz)		2D Symlogies	
MEDIA SPECIFICATIONS		MEMORY & PROCESSING		PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symlogies, Aztec	
Sensor Type		Dual CPU		OPERATING CHARACTERISTICS	
Top Sensor, Adjustable Transmissive Sensor for Gap, Adjustable Reflective Sensor for Black Mark, Paper Out, Ribbon Near-End/Out, Label Near-End		CPU1: 2GB Flash, 256MB RAM CPU2: 4MB Flash, 64 MB RAM		Electrical Requirements	
Media Type		User Downloadable Fonts, Videos, Graphics or Format		Universal Auto-ranging Power Supply, 100-240VAC +/- 10%, 50/60Hz	
Roll (Continuous, Die-cut, Linerless), Fan-fold, Tag, Ticket		Maximum 100MB		Standards & Agency Approvals	
Media		USER FRIENDLY SUPPORT TOOLS		Please contact SATO regarding agency approvals in your area.	
Thickness (Label & Liner)		Large Status LED		Environment	
0.0024" - 0.011" (0.060 - 0.268mm)		Blue / Red		Operating	
Roll Diameter		Audible Alerts		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)	
Up to 10" OD (254mm) on 3" (76.0mm) ID Core		Adjustable Volume Setting		Storage	
Wind		Self Diagnosis		-4 to 140°F (-20 to 60°C), 30 - 90% RH, (without condensation)	
Face-in / Face-out. No Setting Change Required		Head Check, Cutter-Cover Open, Stand-by Mode, Auto-Calibration		PHYSICAL CHARACTERISTICS	
Ribbon		Display Panel		Dimensions	
Length		3.5" Full Color LCD		18.00" L x 10.67" W x 12.64" H (271mm x 457mm x 321mm)	
1,968.5" (600m) on 1" (25.4mm) ID Core		Tool-Free Maintenance		Weight	
Width		Print Head Replacement and Adjustment, Visual Wear Indicator for Platen Roller (Pure Line)		33.28 lbs (15.1kg)	
1.55" - 5.04" (39.5 - 128mm)		Multi-national Language Support		Construction	
Roll Diameter		47 Printable Languages with Scalable Fonts 31 Major Latin, Pan European and Asian Languages for LCD Menu		Die-cast Aluminum (Base, Frame, Front Cover, Ribbon Spindle, Print Head Mechanism)	
Maximum 3.54" (90.0mm)		Operation Videos		Side-cover	
Wind		Multiple Instructional Videos On-board, Space for Customized Videos		Space saving design with large media supply window and bi-fold door for easy access in confined locations	
Face-in/Face-out, No Setting Change Required		Emulation		Secure Mounting	
SATO Genuine Consumables		Auto Detect - SBPL®, SEPL®, SZPL®, SDPL®, SIPL® or STCL® (pre-installed), XML, PDF Direct Printing*, AEP* *Contact your SATO Sales Representative for more information/requirements		3 Keyhole Slots on Chassis for Flat or Incline Setting	
For maximum print quality and optimum use, SATO recommends the use of SATO genuine consumables.		Remote Maintenance		MISCELLANEOUS	
FONT SPECIFICATIONS		SNMP Ver. 3, Web Interfaces, SATO Online Services (SOS), All-In-One Tool (AIOT), SOTI Connect		Functions - Useful Features	
Internal Fonts		OPTIONS		Micro Label Printing, Standalone Printing with SATO Application Enabled Printing (AEP), SATO Online Services (SOS), Multiple Interfaces-Auto-Switching, Status Return	
17 Bitmap SATO Fonts, 30 Scalable SATO Fonts, Multi-National Language Support (47 Languages/Unicode), Single and Double Byte Fonts (Korean, Chinese, Japanese)		Guillotine Cutter, Linerless Cutter, Dispenser with Internal Liner Rewinder, Real-Time Clock, Barcode Validator, RWG500 External Rewinder, UHF RFID, HF RFID, Wireless LAN		Rotation	
RFID SPECIFICATIONS		Options		Auto-label Rotation: 0°, 90°, 180°, 270°	
Options		UHF: Gen 2 ISO/IEC 18000-6C HF: ISO/IEC 15693 & ISO/IEC 4443			

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