



## CL4NX & CL6NX

### Run All-in-One functions anywhere and anytime

#### Industrial Durability

- Metal casing including front panel and side covers protects against any industrial environment.
- Die-cast Aluminium frame, print and ribbon mechanism provide solid stability to ensure print quality and printer durability.
- 1 year global warranty for printer including installed options. Long lasting 30 kilometre guaranteed print head and platen roller.

#### Functional Form

- Bi-fold cover allows compact design and reduces workspace requirement.
- Supports internal, external, clockwise and counter-clockwise rotational media types. Adjustable label holder for increased internal roll capacity.
- Field installable options, snap in print head, and tool-less platen replacement minimise downtime.
- External media inlets, mounting fixtures, and cable hook.



#### Intuitive Operation

- LED indicator and colour display alert operator to printer status. Guidance videos assist in error resolution and printer maintenance.
- Advanced user Interface for full operational control of print, application, I/F and system settings via front panel display.
- Customisable GUI content and security enabled menu access let administrators 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.

# TECHNICAL INFORMATION

PRINTING SPECIFICATION		CL4NX			CL6NX		
Printing Method		Direct Thermal / Thermal Transfer					
Print Resolution		8 dots/mm 203 dpi	12 dots/mm 305 dpi	24 dots/mm 609 dpi	8 dots/mm 203 dpi	12 dots/mm 305 dpi	
Max. Print Speed		10 ips 254 mm/sec	8 ips 203 mm/sec	6 ips 152 mm/sec	10 ips 254 mm/sec	8 ips 203 mm/sec	
Max. Print Area	Width, mm (inch)	104 mm (4.1")			167.5 mm (6.5")		
	Length, mm (inch)	2500 mm (98.43")	1500 mm (59.1")	400 mm (15.7")	2500 mm (98.43")	1500 mm (59.1")	
Processor		Dual CPU & Dual OS: CPU 1: 2GB ROM, 256MB RAM for Linux OS, CPU 2: 4MB ROM, 64 MB RAM for ITRON OS					
Printer Memory		2GB ROM, 256MB RAM					
CONSUMABLES SPECIFICATION (Recommended to use printer supplies manufactured or certified 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		0.06 - 0.26 mm (0.002" - 0.01")			0.08 - 0.268 mm (0.003" - 0.01")		
Label Shape	Diameter	Maximum 220 mm (8.6") on 76 mm (3") internal core diameter   Core diameter: Ø 76 mm (3.0"), Ø 101 mm (4.0")					
	Wind Direction	Face In / Face Out. No Setting Change Required					
Label Size	Continuous	Width	22 - 128 mm 0.87" - 5.0"	22 - 128 mm 0.87" - 5.0"	22 - 128 mm 0.87" - 5.0"	47-177 mm 1.27" - 6.96"	
		Length	6-2497 mm 0.24" - 8.3"	6-1497 mm 0.24" - 8.9"	6-397mm 0.24" - 15.6"	16-2500 mm 0.63" - 8.4"	16-1500 mm 0.63" - 9.1"
	Tear-Off	Width	22-128 mm 0.87" - 5.0"	22-128 mm 0.87" - 5.0"	22-128 mm 0.87" - 5.0"	47-177 mm 1.27" - 6.96"	47-177 mm 1.27" - 6.96"
		Length	17-2497 mm 0.67" - 98.3"	17-1497 mm 0.67" - 58.9"	17-397 mm 0.67" - 15.6"	17-2500 mm 0.67" - 8.4"	17-1500 mm 0.67" - 9.1"
	Cutter	Width	22-128 mm 0.87" - 5.0"	22-128 mm 0.87" - 5.0"	22-128 mm 0.87" - 5.0"	47-177 mm 1.27" - 6.96"	47-177 mm 1.27" - 6.96"
		Length	17-2497 mm 0.67"-98.3"	17-1497 mm 0.67" - 58.9"	17-397 mm 0.67" - 15.6"	17-2500 mm 0.67" - 98.4"	17-1500 mm 0.67" - 59.1"
	Dispenser	Width	22-128 mm 0.87" to 5.0"	22-128 mm 0.87" to 5.0"	22-128 mm 0.87" to 5.0"	47-177 mm 1.27" - 6.96"	47-177 mm 1.27" - 6.96"
		Length	27-397 mm 1.06" - 15.6"	27-397 mm 1.06" - 15.6"	27-397 mm 1.06" - 15.6"	27-397 mm 1.06" - 15.6"	27-397 mm 1.06" - 15.6"
	Linerless	Width	60 - 118 mm 2.36" - 4.6"	60 - 118 mm 2.36" - 4.6"	60 - 118 mm 2.36" - 4.6"	Not available	Not available
		Length	30-120 mm 1.2" - 4.9"	30 - 120 mm 1.2" - 4.9"	30 - 120 mm 1.2" - 4.9"	Not available	Not available
	Ribbon	Size	Max. Length: 600 m (1969'). 450 m (1476') when ribbon width is 39.5 mm. Max. Roll Diameter: 90 mm (3.5'), Ribbon width : 39.5 mm (1.55") to 128 mm (5.04")			As CL4NX 39.5 mm (1.55") to 177 mm (7.0")	
		Other	Core diameter: Ø 25.4 mm (1"), Wind direction : Face In/ Face Out, No Setting Change Required				
INTERFACE CHARACTERISTICS AND INTEGRATION							
Interfaces	RS232	RS232C Standard (XON/XOFF, RTS/CTS)					
	IEEE1284	IEEE1284					
	USB	USB2.0 type-B, USB2.0 type-A USB Host(2 ports)					
	LAN	Ethernet 10/100 Mbps / DHCP(ipv4 / ipv6), TCP/IP					
	Bluetooth	Version 3.0 + EDR Class 2					
	EXT IO	Amphenol D-Sub14pin female					
Optional Interface	Wireless LAN (WiFi and CCX Certified), WiFi Direct, IEEE 802.11a/b/g/n, Dual band (2.4GHz, 5GHz)						
Remote Maintenance	SNMP Ver. 3, HTTPs						
Supported printer protocols	Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL,SIPL or STCL						
OPERATING CHARACTERISTICS							
Power Requirements	AC100V~AC240V±10%, 50/60 Hz, Auto-ranging Power Supply, Energy Star – Compliant						
Environment	Operating	0 - 40 °C / 30 - 80 % RH (without condensation)					
	Operating Linerless	5 - 35°C / 30 - 75 % RH (without condensation)					
	Storage	-20 - 60 °C / 30 - 90 % RH (without condensation)					
Dimensions	CL4NX: 271 mm (10.6") x 457 mm (17.9") x 321 mm (12.6") CL6NX: 338 mm (13.3") x 457 mm (17") x 321 mm (12.6")						
Weight	CL4NX: 15Kg (33 lbs)			CL6NX: 20Kg (42 lbs)			
Display Panel	TFT Full Color LCD, 3.5"(320 (RGB) *240)						
MISCELLANEOUS							
Standards & Agency Approvals	IEC 60950, CE Marking, EN 60950-1, EN 55022 Class A, EN 55024, R&TTE, NEMssO-GS, cMETus, UL60950-1/CSA C22.2 No. 60950-1, FCC 15 (SUB B, C), ICES-003, NMB-003, BIS, C-Tick, RCM, CCC, SRRC, KC, S-Mark(Arg), SIRIM, IDA, PTQC, NBTC						
Functions – Useful features	18 User Guidance Videos on LCD with space for customized videos, Multi Language support LCD message (30 Languages), Energy Saving, Large Status LED, Multiple Interfaces-Auto-switching, USB Memory for data copy, Status return, Alarm Sound						
Functions – Self Diagnosis Checking	Thermal head check, Paper end detection, Ribbon end detection, Test print, Head Lift detection						
OPTIONS							
Accessories	CL4NX	Cutter, Linerless Cutter Kit, Dispenser with Internal Backing Paper Rewinder, Real-Time Clock, UHF RFID, Wireless LAN kit					
	CL6NX	Cutter, Simple Dispenser, Dispenser with Internal Backing Paper Rewinder, Real-Time Clock, Wireless LAN kit.					
RFID SPECIFICATION (optional)							
UHF	Standard	ISO18000-6 Type C					
	Frequency	868 – 920MHz					
	Protocols	EPC Gen 2 Class 1, NXP Impinj, Alien					
	RFID Features	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 readind and printing as text and barcode.					
Gen2 Memory	Expanded EPC (496bit), User Memory (512bit), TID (96bit), Access password, Kill password, Lock						

\*Technical data without guarantee

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