



Industrial Thermal Printers



CL4NX



CL6NX

# CLNX™ SERIES

## Problem Solver

SATO's first truly UNIVERSAL Industrial Label Printer engineered for the most demanding printing applications

### Simple-to-Operate



- Full Color Interactive LCD
- Videos that Offer Information on the Printer Operation
- Intuitive Menu Navigation
- Tool Free Maintenance
- NFC Configurable

### Plug-and-Play



- LTDS (Label Tension Damper System)
- Flexible Media Support - Use Wound In or Wound Out Media
- Multiple Interfaces Auto Switching

### All-in-One



- Application Enabled Printing (AEP)
- Competitive Emulations On-board
- Multi-national Language Support
- Supports HF/NFC or UHF RFID



[www.satoamerica.com/CLNX](http://www.satoamerica.com/CLNX)

# GENERAL SPECIFICATIONS / CLNX™ Series

PRINTER MODEL		CL4NX - 4" Model			CL6NX - 6" Model	
<b>Print Resolution</b>		203 dpi (8 dots/mm)	305 dpi (12 dots/mm)	609 dpi (24 dots/mm)	203 dpi (8 dots/mm)	305 dpi (12 dots/mm)
<b>Print Speed</b>		10 ips (254 mm/s)	8 ips (203 mm/s)	6 ips (152 mm/s)	10 ips (254 mm/s)	8 ips (203 mm/s)
<b>Print Area</b>	<b>Max Width</b>	4.1" (104.0 mm)			6.5" (167.5 mm)	
	<b>Max Length</b>	98.43" (2500 mm)	59.06" (1500 mm)	15.75" (400 mm)	98.43" (2500 mm)	59.06" (1500 mm)
<b>Media Width</b>		0.98" (25 mm) ~ 5.15" (131 mm)			1.96" (50 mm) ~ 7.00" (180 mm)	
<b>Ribbon Width</b>		1.55" (39.5 mm) ~ 5.04" (128 mm)			2.322" (59 mm) ~ 6.96" (177 mm)	
<b>Dimensions</b>		D: 17.99" (457 mm)	W: 10.66" (271 mm)	H: 12.63" (321 mm)	D: 17.99" (457 mm)	W: 13.30" (338 mm) H: 12.63" (321 mm)
<b>Weight</b>		33 lbs. (15 kgs)			42 lbs. (20 kgs)	

## PRINT SPECIFICATIONS

### Method

Direct Thermal or Thermal Transfer

### Mode

Continuous, Tear-off, Cutter, Dispense, Linerless

## MEDIA SPECIFICATIONS

### Sensor Type

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

#### Minimum Length (With Liner)

Continuous	Tear-off/Cutter	Dispenser
0.35" (9 mm)	0.79" (20 mm)	1.18" (30 mm)

#### Thickness (Label & Liner)

0.002" (0.060 mm) - 0.011" (0.268 mm)

#### Roll Diameter

Up to 8.6" OD (220 mm) on 3" (76.0 mm) ID Core  
Optional 10" OD (254.0 mm)

#### Wind

Face-in/Face-out, No Setting Change Required

### Ribbon

#### Length

1,968.5 ft (600 m) on 1" (25.4 mm) ID Core

#### Roll Diameter

Maximum 3.54" (90.0 mm)

#### 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.

## COMMUNICATION INTERFACES SPECIFICATIONS

### Standard

USB 2.0 (Type A, Type B), Ethernet (IPv4/IPv6) on Rear Panel, USB 2.0 (Type A) on Front Panel, RS-232C, IEEE1284, EXT on Standard Interface Board, Bluetooth® Ver. 3.0, NFC

### Optional Wireless LAN Kit (Internal)

Wi-Fi®, Wi-Fi Direct® and CCX (Cisco®) Version 4 Certified, IEEE 802.11 a/b/g/n, Dual Band (2.4 GHz, 5 GHz)

## MEMORY & PROCESSING

### Dual CPU

CPU1: 2GB Flash, 256MB RAM  
CPU2: 4MB Flash, 64 MB RAM

## 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,  
Platen Replacement

### Multi-national Language Support

47 Printable Languages with Scalable Fonts  
31 Languages for LCD Menu

### Operation Video

Multiple Instructional Videos On-board  
(e.g. Error Resolution, Media Loading, Parts Replacement and Cleaning)

### Emulation

Auto Detect - SBPL®, SEPL®, SZPL®, SDPL®,  
SIPL® or STCL® (Pre-installed), XML, AEP\*

\*Contact your SATO Sales Manager for more information/requirements

### Remote Maintenance

SNMP Ver. 3, HTTPS (Web Interface)

## OPTIONS

Cutter, Powered Stacker, Linerless Cutter Kit, Dispenser with Internal Liner Rewinder, Real-time Clock, UHF RFID (ISO18000-6 Type C), HF/NFC RFID (ISO/IEC 15693 or ISO/IEC 14443 Type A), WLAN Kit, Barcode Validator, External Rewinder (RWG-500) - Full 8" OD Roll Take Up Note: Linerless and RFID available in CL4NX Model only. Dispenser only option available in CL6NX Model.

## FONT SPECIFICATIONS

### Internal Fonts

10 Bitmap SATO Fonts, 15 Scalable SATO Fonts, Multi-National Language Support (47 Languages/Unicode), Single and Double Byte Fonts (Korean, Chinese, Japanese)

## 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, MS1, Bookland, Postnet™, UPC-A/E

#### 2D Symbolologies

PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symbolologies, Aztec

### User Downloadable Fonts, Graphics or Format

Maximum 100MB

## OPERATING & ENVIRONMENT CHARACTERISTICS

### Electrical Requirements

Universal Auto-ranging Power Supply,  
100-240VAC +/- 10%, 50/60Hz  
Energy Star Compliant

### Standards & Agency Approvals

IEC 60950, CE Marking, EN 60950-1, EN 55022 Class A, EN 55024, R&TTE, NEMKO-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, ANATEL

### Environment

#### Operating

32 to 104°F (0 to 40°C), 30-80% RH,  
Non-condensing; Linerless: 40 to 95°F  
(5 to 35°C) 30 - 75% RH, Non-condensing

#### Storage

-4 to 140°F (-20 to 60°C), 30 - 90% RH,  
Non-condensing

## PHYSICAL CHARACTERISTICS

### 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

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