



## Industrial Thermal Printer



# CL4NX™

## SATO, Beyond Expectation

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 Valuable Information on the Printer Operation
- Intuitive Menu Navigation
- Tool-less Maintenance

### Plug-and-Play



- LTDS (Label Tension Damper System)
- Flexible Media Support - Use Wound In or Wound Out Media
- High Energy Mode - Prints on a Wide Variety of Stock Types

### All-in-One



- Multiple Interfaces - Auto Switching
- Competitive Emulations On-board
- Multi-Language Support

# GENERAL SPECIFICATIONS / CL4NX™

## PRINTER MODEL

CL4NX

## PRINT SPECIFICATIONS

### Print Method

Direct Thermal or Thermal Transfer

### Print Resolution

203 dpi      305 dpi      609 dpi  
(8 dots/mm)   (12 dots/mm)   (24 dots/mm)

### Print Speed

10 ips      8 ips      6 ips  
(254.0 mm/sec)   (203.2 mm/sec)   (152.4 mm/sec)

### Print Mode

Continuous, Tear-off, Cutter, Dispense

### Print Area

#### Maximum Width

4.1" (104.0 mm)

#### Maximum Length (Continuous mode)

98.43"      59.06"      15.75"  
(2500.0 mm)   (1500.0 mm)   (400.0 mm)

## MEDIA SPECIFICATIONS

### Sensor Type

Adjustable Transmissive Sensor for Gap,  
Adjustable Reflective Sensor for Black Mark,  
Paper End, Ribbon Near-End/End

### Media Type

Roll (Continuous, Die-cut), Fan-fold, Tag, Ticket

### Media

#### Width

0.87" (22.0 mm) - 5.04" (128.0 mm)

#### Thickness (label & liner)

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

#### Roll Diameter

Maximum 8" (203.2 mm) on 3" (76.0 mm) ID Core  
Optional 10" OD

#### Wind

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

### Ribbon

#### Width

1.55" (39.5 mm) - 5.04" (128.0 mm)

#### 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

## MEMORY & PROCESSING SPECIFICATIONS

### Dual CPU

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

## USER FRIENDLY SUPPORT TOOLS

### Large Status LED

Blue/Red

### Alarm Sound

Beep (3 volume setting)

### Self Diagnosis

Head Check, Cutter-Cover Open,  
Stand-by mode, Auto-Calibration

### Display Panel

3.5" Full Color LCD

### Tool-less Maintenance

Print Head Replacement and Adjustment,  
Platen Replacement

### Multi National Language Support

47 Languages Scalable Fonts for Print  
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®, SZPL®, SDPL®, SIPL® or  
STCL®

### Remote Maintenance

SNMP Ver. 3, HTTPS

## 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 (only for NA & EU)

### Optional Wireless LAN Kit (Internal)

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

## OPTIONS

Cutter, Dispenser with Internal Liner  
Re-winder, Real-Time Clock, UHF RFID  
(ISO18000-6 Type C), W-LAN kit

## FONT SPECIFICATIONS

### Internal Fonts

#### Bitmap

U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A, OCR-B,  
Chinese (GB18030, Big5), Korean (KSX1001)

#### Scalable

CG Times, CG Triumvirate™, 13 SATO Fonts  
- Unicode (47 Languages Supported)

## BARCODE SYBBOLOGIES SPECIFICATIONS

### Barcodes

#### Linear

Code 39, Code 93, Code 128, CODABAR  
(NW7), EAN8/13, GS1-Databar™, GS1-128  
(UCC/EAN128), Interleaved 2/5, Industrial  
2/5, JAN8/13, Matrix 2/5, MS1, Bookland,  
Postnet™, UPC-A/E

#### 2D Sybologies

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

### 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 & Certification

EN60950-1, UL60950-1/CSA C22.2  
No.60950-1, C-Tick, CCC, KC, S-Mark

### Agency Approvals

cMETus, CE marking, FCC, NEMKO GS,  
ICES-003, NMB-003, KC, CCC, S-mark,

### Environment

#### Operating

32 to 104°F (0 to 40°C), 30 - 80% RH,  
Non-Condensing

#### Storage

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

## PHYSICAL CHARACTERISTICS

### Dimensions

Width: 10.67" (271.0 mm)  
Depth: 17.99" (457.0 mm)  
Height: 12.63" (321.0 mm)

### Construction

Die-cast Aluminum  
(Base, Frame, Front Cover, Ribbon Spindle,  
Print Head Mechanism)

### Side-cover

Bi-fold for Space Saving with Large Clear  
Window

### Mounting Chassis

3 Fixtures for Flat or Incline Setting

### Weight

33.0 lbs. (15.1kg)

Available from:

## ID Technology

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