



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 (8 dots/mm)	305 dpi (12 dots/mm)	609 dpi (24 dots/mm)
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Print Speed

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

Continuous, Tear-off, Cutter, Dispense

Print Area

Maximum Width

4.1" (104.0 mm)

Maximum Length (Continuous mode)

98.43" (2500.0 mm)	59.06" (1500.0 mm)	15.75" (400.0 mm)
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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 (KXS1001)

Scalable

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

BARCODE SYBLOGIES 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 Symbolologies

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

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. (15.1 kg)

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