



Industrial Thermal Printer



CL4NX

SATO, Beyond Expectations

SATO's First Truly UNIVERSAL Industrial Label Printer
Engineered for the Most Demanding Printing Needs

Simple-to-Operate



- Full Color Interactive LCD Display
- Intuitive Menu Navigation
- Tens of Videos Offer Valuable Information on the Operation
- Tool-less Maintenance

Plug-and-Play



- LTDS (Label Tension Damper System)
- Flexible Media Support, Media Wound In or Wound Out
- High Energy Mode – Ability to Print on a Wide Variety of Stock Types

All-in-One



- Multiple Interfaces – Auto Switching
- Competitive Emulations On-board
- Multi-National 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

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 & Dual OS

CPU1: 2GB ROM, 256MB RAM for Linux OS
CPU2: 4MB ROM, 64 MB RAM for ITRON OS

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

TFT Full Color LCD, 3.5"(320 (RGB) *240)

Multi National Language Support

47 Languages Scalable Fonts for Print
30 Languages for LCD Menu

Operation Video

Preset: 18 (Media Loading, Parts Replacement,
Cleaning, RFID Antenna Setting)
Optional: Customized Video (Maximum 100MB)

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/v6) on Rear Panel
USB 2.0 (Type A) on Front Panel
RS-232C, IEEE1284, EXT on Standard Interface Board
Bluetooth Ver.3.0*

Optional Wireless LAN kit*

Wi-Fi and CCX 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,
Multi National Language Support
(47 Language/Unicode)

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 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)

* Please contact your local SATO office for availability

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