SATO

Industrial Thermal Printer
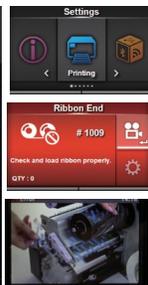
CL4NX™

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 Valuable Information on the Printer Operation
- Intuitive Menu Navigation
- Tool Free 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-national Language Support

WiFi CERTIFIED® • Bluetooth • CISCO Compatible • SAP • ENERGY STAR • RoHS COMPLIANT

www.satoamerica.com/CL4NX

GENERAL SPECIFICATIONS / CL4NX™

PRINT SPECIFICATIONS

Method
Direct Thermal or Thermal Transfer

Resolution

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

Speed

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

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)

Mode
Continuous, Tear-off, Cutter, Dispense, Linerless

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, Linerless), Fan-fold, Tag, Ticket

Media

Width (With Liner)
0.98" (25.0 mm) - 5.15" (131.0 mm)

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

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 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-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® (Pre-installed), XML

Remote Maintenance
SNMP Ver. 3, HTTPS (Web Interface)

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

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)

OPTIONS

Cutter, Linerless Cutter Kit, Dispenser with Internal Liner Rewinder, Real-time Clock, UHF RFID (ISO18000-6 Type C), W-LAN Kit, External Rewinder (RWG-500) - Full 8" OD Roll Take Up
Note: Linerless and RFID available in CL4NX Model only. Dispenser option available in CL6NX Model only.

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 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, JAN 8/13, Matrix 2/5, MS1, Bookland, Postnet™, UPC-A/E

2D Symbologies
PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symbologies, 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

Environment

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

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

PHYSICAL CHARACTERISTICS

Dimensions
Width: 10.66" (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

Secure Mounting
3 Keyhole Slots on Chassis for Flat or Incline Setting

Weight
33.0 lbs. (15.1kg)

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