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

www.satoamerica.com/CL4NX

GENERAL SPECIFICATIONS / 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 (With Liner)

0.98" (25.0 mm) - 5.16" (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

Maximum 8" (203.2 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 ROM, 256MB RAM
CPU2: 4MB ROM, 64 MB RAM

USER FRIENDLY SUPPORT TOOLS

Large Status LED

Blue/Red

Alarm Sound

Beep (3 volume settnig)

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 (BG18030, Big5), Korean (KSX1001)

Scalable

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

BARCODE SYMBOLIGIES 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 Symbologies

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

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

Standard & 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 Savng with Large Clear Window

Mounting Chassis

3 Fixtures for Flat or Incline Setting

Weight

33.0 lbs. (15.1kg)

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