



PRINTING SPECIFICATION

| | | | |
|------------------|--|---------------------|---------------------|
| Printing Method | Direct Thermal / Thermal Transfer | | |
| Print Mode | Continuous, Tear-off, Cutter, Dispenser, Linerless | | |
| Print Resolution | 8 dots/mm (203dpi) | 12 dots/mm (305dpi) | 24 dots/mm (609dpi) |
| Max. Print Speed | 14ips (355mm/sec) | 14ips (355mm/sec) | 6ips (152mm/sec) |
| Max. Print Area | Width | 104mm (4.09") | |
| | Length | 2500mm (98.42") | 1500mm (59.05") |
| Processor | Dual CPU & Dual OS: CPU1: 800MHz for Linux OS, CPU2: 800MHz for ITRON OS | | |
| Printer Memory | CPU1: 2GB ROM, 256MB RAM, CPU2: 4MB ROM, 64MB RAM | | |

CONSUMABLE SPECIFICATION (Recommended to use consumables manufactured or supplied by SATO)

| | | | | | |
|----------------------------|--|--|---|---|---|
| Sensor Type | I-mark Sensor (Reflective), Label Gap Sensor (Transmissive) | | | | |
| Media Type | Roll or Fan-fold Die Cut Labels, Plain Paper Face Stock, Synthetics and Continuous Stock | | | | |
| Media Thickness | 0.060 - 0.268mm (0.0024" - 0.011") | | | | |
| Label Shape | Diameter | Maximum 265mm (10.43") Core diameter: Ø76mm (3.0"), Ø101mm (4.0") | | | |
| | Wind Direction | Face In / Face Out. No Setting Change Required | | | |
| Label Size (Without Liner) | Continuous | Width | 22 - 128mm (0.87" - 5.04") | 22 - 128mm (0.87" - 5.04") | 22 - 128mm (0.87" - 5.04") |
| | | Length | 6 - 2497mm (0.24" - 98.30") | 6 - 1497mm (0.24" - 58.94") | 6 - 397mm (0.24" - 15.63") |
| | Tear-Off / Cutter | Width | 22 - 128mm (0.87" - 5.04") | 22 - 128mm (0.87" - 5.04") | 22 - 128mm (0.87" - 5.04") |
| | | Length | 17 - 2497mm (0.67" - 98.30") | 17 - 1497mm (0.67" - 58.94") | 17 - 397mm (0.67" - 15.63") |
| | Dispenser | Width | 22 - 128mm (0.87" - 5.04") | 22 - 128mm (0.87" - 5.04") | 22 - 128mm (0.87" - 5.04") |
| | | Length | 10 - 397mm (0.39" - 15.63") ^{*1} | 10 - 397mm (0.39" - 15.63") ^{*1} | 10 - 397mm (0.39" - 15.63") ^{*1} |
| | Linerless | Width | 60 - 118mm (2.36" - 4.65") | 60 - 118mm (2.36" - 4.65") | 60 - 118mm (2.36" - 4.65") |
| | | Length | 30 - 120mm (1.18" - 4.72") | 30 - 120mm (1.18" - 4.72") | 30 - 120mm (1.18" - 4.72") |
| Ribbon | Size | Max. Length: 600m (1968.5') - 450m (1476.4') when Ribbon Width is 39.5mm (1.55") Max. Roll Diameter: 90mm (3.5"), Ribbon Width: 39.5mm (1.55") to 128mm (5.04") | | | |
| | Other | Core Diameter: Ø25.4mm (1"), Wind Direction: Face In/ Face Out, No Setting Change Required | | | |

FONTS / SYMBOLOGIES

| | | |
|--|--|--|
| Internal Fonts | Standard Bitmap | U, S, M, WB, WL, XS, XU, XM, XB, XL, X20, X21, X22, X23, X24, OCR-A, OCR-B |
| | Scalable Fonts | 30 SATO Fonts, 2 Outline Fonts |
| | Encoding | Major Latin and Pan-European Code Pages (WGL4), GB18030 (Simplified), KSX1001 (Korean), BIG5 (Traditional), JIS, SHIFT-JIS, UTF-8 and UTF-16BE |
| Barcode | Linear | UPC-A/UPC-E, JAN/EAN-13/8, CODE39, CODE93, CODE128, GS1-128(UCC/EAN128), CODABAR(NW-7), ITF, Industrial 2 of 5, Matrix 2 of 5, MSI, POSTNET, UPC Add-on Code, BOOKLAND, USPS Code, GS1 DataBar Omnidirectional, GS1 DataBar Truncated, GS1 DataBar Stacked, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Expanded Stacked |
| | 2D Symbolologies | QR Code, Micro QR Code, PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code and Composite Symbolologies |
| Print Direction | Character Data Rotation: 0°, 90°, 180°, 270° | |
| User Downloadable Fonts, Graphics or Formats | Maximum 100MB | |

INTERFACE CHARACTERISTICS AND INTEGRATION

| | |
|-----------------------------|---|
| Standard Interfaces | USB 2.0 (Type A & B), Ethernet (IPv4/v6), RS232C, IEEE1284, EXT, Bluetooth Ver. 3.0 ² , NFC |
| Optional Interface | Wireless LAN, WiFi Certified, Wifi Direct, IEEE 802.11 a/b/g/n Dual Band (2.4GHz, 5GHz) |
| Remote Access | SNMP Ver.3, HTTPs |
| Supported Printer Protocols | Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL, SIPL, STCL, SEPL |

OPERATING CHARACTERISTICS

| | | |
|--------------------|--|---|
| Power Requirements | AC100V ~ AC240V±10%, 50/60 Hz, Auto-ranging Power Supply | |
| Environment | Operating | 0 - 40°C / 30 - 80% RH (without condensation) |
| | Operating Linerless | 5 - 35°C / 30 - 75% RH (without condensation) |
| | Storage | -20 - 60°C / 30 - 90% RH (without condensation) |
| Dimensions | 271mm (10.67") × 457mm (18.00") × 321mm (12.64") | |
| Weight | 15.1kg (33.28 lbs) | |
| Display Panel | TFT Full Color LCD, 3.5"(320 x 240 RGB) | |

MISCELLANEOUS

| | |
|-------------------------------------|--|
| Standards & Agency Approvals | Please contact your local SATO office regarding agency approvals for your country/region |
| Functions - Useful Features | Micro Label Printing, SATO Application Enabled Printing, SATO Online Services, 18 User Guidance Videos on LCD, Space for Customised Videos, Multi Language LCD Message (31 Languages), Energy-saving, Large Status LED, Multiple Interfaces - Auto-Switching, USB Memory for Data Copy, Status Return, Alarm Sound |
| Functions - Self Diagnosis Checking | Thermal Head Check, Paper End Detection, Ribbon End Detection, Test Print, Head Lift Detection |

OPTIONS

| | |
|-------------|---|
| Accessories | Cutter, Linerless Cutter, Dispenser with Internal Liner Rewinder, Real-Time Clock, Wireless LAN, Barcode Checker Stand, External Rewinder, External Cover, RFID ² , Rotary Cutter ² |
|-------------|---|

Further Beyond Expectations



CL4NX Plus



SATO AUSTRALIA PTY LTD.
6 Federation Way, Chifley Business Park,
Mentone VIC 3194, Australia
Tel: +61 3 8814 5300 Fax: +61 3 8814 5335
Email: enquiries-us@sato-global.com



^{*1} Length of 10 to 27mm is only available for Thermal Transfer mode
^{*2} Please contact your local SATO office for availability in your market

01.10.2020 C19_0423_v2
All information in this leaflet is accurate as of January 2020.
Product specifications are subject to change without notice.
Any unauthorized reproduction of the contents of this leaflet, in part or whole, is strictly prohibited.
All other software, product or company names are trademarks or registered trademarks of their respective owners.
© SATO HOLDINGS CORPORATION. All rights reserved.

www.satoaustralia.com

Key Applications



Identification tagging to achieve greater productivity

Whether you produce parts or automobiles, CL4NX Plus is ideal for you to boost process efficiency and overall productivity. For parts manufacturers, user can leverage Application Enabled Printing (AEP) and PDF Direct Printing to process ID tag data in PDF format received from PC, print, cut and sort ID tags automatically without worker intervention at high accuracy.

AEP enables user to print directly from Programmable Logic Controller (PLC) to printer and makes it possible for the same print application to be easily implemented at any manufacturing plants.



End-to-end supply chain labelling for tracking and greater visibility

CL4NX Plus is suitable for labels required across the supply chain, from goods receiving, racks, pallets to returned goods labels. Users can take advantage of CL4NX Plus to save various label templates in the printer for easy selection and setup.

Use CL4NX Plus with our wide selection of labels including special labels such as 3-layer labels (top layer can be peeled off without glue after label is pasted on item) suitable to be used for shipping / return.



Raw material to product labelling for end-to-end traceability

Built to withstand tough industrial environments, CL4NX Plus is suitable for manufacturers to gain clear visibility and traceability from raw materials to finished products which is especially helpful in the event of product defect / recall.

Electronic manufacturers can use our heat-resistant labels with CL4NX Plus for high-precision printing of micro labels to track Printed Circuit Boards (PCB) of electronic products which are getting ever smaller.

Additionally, user can achieve stable operations and minimal downtime by using SATO Online Services (SOS), a cloud-based proactive preventative maintenance service for CL4NX Plus.



Price and item labelling for profit maximisation & customer satisfaction

For high-volume printing in retail and ecommerce warehouses and distribution centres, CL4NX Plus is ideal for printing barcode or RFID distribution labels attached on goods sent to stores to prevent incorrect deliveries.

Retailers can also re-label products from factories with RFID labels or tags for more efficient stocktaking and inventory visibility in stores. We offer a wide range of labels, tags, tickets, etc. for various needs from markdown promotions to anti-tampering / security purposes.



Identification tag

| Part Description | | Part Number | |
|------------------|----------|-------------|---------|
| Bearing | | 0310 | |
| Qty | 100 | Order Date | 3/10 |
| Supplier | Sato Ltd | Due Date | 10/3 |
| Planner | Sam S. | Location | Rack 1A |



Shipping / Return 3-layer label



Part label

Developing Unit

PART NO: A12ER72733



Quantity: 1
Date: 18/08/2021



RFID price tag



Features



Accurate & Efficient Performance to drive higher productivity

- Enhanced print precision and accuracy makes CL4NX Plus ideal for micro label applications such as lot tracing of small electronic components.
- High print speed of 14ips even at 305dpi enables high quality printing at fast speed.
- UHF and HF RFID* options support a wide variety of tags. New SATO RF Analyze* enables reading and encoding of UHF RFID labels automatically for fast, stable encoding.



Flexible & Global-ready for applications across countries

- Connectivity via multiple interfaces including serial, parallel, LAN and USB. WLAN optional kit also available.
- Competitive emulations on board for seamless printer replacement.
- Suitable for global implementation with 47 print and 31 display languages.
- View status of printers at a glance via cloud and perform proactive preventative maintenance with SOS.



Functional Design, Durable Body built for demanding industrial environments

- All-round metal casing, die-cast aluminium frame and print and ribbon mechanisms enhance printer durability and stability.
- Easy setup and maintenance with field installable parts, snap-in print head and tool-less platen replacement minimise downtime.
- PureLine™ platen roller* provides visual indicator of wear as a means of proactive maintenance.



Intuitive Operation with minimal training required

- LED indicator and colour display alert operator to printer status. Guidance videos speed up error resolution & printer maintenance.
- Full operational control of print, application, I/F and system settings via front panel display.
- Customisable GUI content and security-enabled menu access let administrators personalise operator experience.



Sustainable Innovation for greater efficiency and cost reduction

- Linerless labels use less resources, enable greater productivity (more labels per roll) and reduce logistics and storage expenses (smaller roll sizes).
- Use Energy Star certified CL4NX Plus to save energy costs without compromising any functionality.



Application Enabled Printing (AEP) for reliability and cost-effectiveness

- AEP is a powerful onboard printing intelligence that enables user to simplify label printing operations such as direct connectivity to peripheral devices such as barcode readers and weight scales for data input.
- Installation and maintenance costs are reduced as AEP enables printer to connect directly with database and print without the need of a PC.

*For availability in your market, please contact your local SATO office.