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CLNX Plus Technical Specifications

PRINTING SPECIFICATION	CL4NX PLUS			CL6NX PLUS	
Printing Method	Direct Thermal / Thermal Transfer			Direct Thermal / Thermal Transfer	
Print Mode	Continuous, Tear-off, Cutter, Rotary Cutter, Dispenser, Linerless,			Continuous, Tear-off, Cutter, Dispenser.	
Print Resolution	8 dots/mm (203 dpi)	12 dots/mm (305 dpi)	24 dots/mm (609 dpi)	8 dots/mm (203 dpi)	12 dots/mm (305 dpi)
Max. Print Speed	14 ips (355 mm/sec)	14 ips (355 mm/sec)	6 ips (152 mm/sec)	2-10 ips, (default 6 ips)	2-8 ips, (default 6 ips)
Max. Print Area — Width	104mm (4.09")			167.5 mm (6.5")	
Max. Print Area — Length	2500mm (98.42")	1500mm (59.05")	400mm (15.75")	203 dpi: 2500mm	305 dpi: 1500mm
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	CL4NX PLUS			CL6NX PLUS	
(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")			Maximum 220mm (8.6"), Core diameter: Ø76mm (3.0"), Ø101mm (4.0")	
Label Shape — 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")	47-177mm (1.85" - 6.97")	47-177mm (1.85" - 6.97")
Label Size (Without Liner) — Continuous — Length	6 - 2497mm (0.24" - 98.30")	6 - 1497mm (0.24" - 58.94")	6 - 397mm (0.24" - 15.63")	6 - 2497mm (0.24" - 98.3")	6 - 1497mm (0.24" - 58.94")
Label Size (Without Liner) — Tear-off/Cutter — Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")	47-177mm (1.85" - 6.97")	47-177mm (1.85" - 6.97")
Label Size (Without Liner) — Tear-off/Cutter — Length	17 - 2497mm (0.67" - 98.30")	17 - 1497mm (0.67" - 58.94")	17 - 397mm (0.67" - 15.63")	47-177mm (1.85" - 6.97")	17 - 1497mm (0.67" - 58.94")
Label Size (Without Liner) — Dispenser — Width	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")	22 - 128mm (0.87" - 5.04")	47-177mm (1.85" - 6.97")	47-177mm (1.85" - 6.97")
Label Size (Without Liner) — Dispenser — Length	10 - 397mm (0.39" - 15.63")[1]	10 - 397mm (0.39" - 15.63")[1]	10 - 397mm (0.39" - 15.63")[1]	10 - 397mm (0.39" - 15.63")	10 - 397mm (0.39" - 15.63")
Label Size (Without Liner) — Linerless — Width	60 - 118mm (2.36" - 4.65")	60 - 118mm (2.36" - 4.65")	60 - 118mm (2.36" - 4.65")	Not available	Not available
Label Size (Without Liner) — Linerless — Length	30 - 120mm (1.18" - 4.72")	30 - 120mm (1.18" - 4.72")	30 - 120mm (1.18" - 4.72")	Not available	Not available
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")			Max. Length: 600m (1968.5"). 450m (1476.4") when ribbon width is 39.5mm (1.55") Max. Roll Diameter: 90mm (3.5") when ribbon width: 39.5mm (1.55") to 177mm (7.0")	
Ribbon — Other	Core diameter: Ø25.4mm (1"), Wind direction : Face In/ Face Out, No Setting Change Required, Tubeless wind method.				

FONTS / SYMBOLOGIES	CL4NX PLUS	CL6NX PLUS
Internal Fonts — Standard Bitmap	U, S, M, WB, WL, XS, XU, XM, XB, XL, X20, X21, X22, X23, X24, OCR-A, OCR-B	
Internal Fonts — Scalable Fonts	30 SATO Fonts, 2 Outline Fonts.	
Internal Fonts — Encoding	Major Latin and Pan-European Code Pages (WGL4), GB18030 (simplified), KSX1001 (Korean), BIG5 (traditional), JIS, SHIFT-JIS also supported.	
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.	
Barcode — 2D Symbologies	QR Code, Micro QR Code, PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, Data Matrix (ECC200), Aztec Code, GS1QR Code and Composite Symbologies.	
Print Direction	Character data rotation: 0°, 90°, 180°, 270°	
User Downloadable Fonts, Graphics or Formats	Maximum 100MB	

INTERFACE CHARACTERISTICS AND INTEGRATION	CL4NX PLUS	CL6NX PLUS
Standard Interfaces	USB 2.0 (Type A & B), RS232C, IEEE1284, EXT, Bluetooth Ver. 3.0*2, NFC, Ethernet (IPv4/v6) supporting:TCP/IP, LPR, FTP, SNMPv3, NTP, HTTP, DHCPv4, wired 802.1x, Stateless Auto Configuration, Stateful Auto Configuration (DHCPv6)	
Optional Interface	Wireless LAN, WiFi Certified, WiFi Direct, IEEE 802.11 a/b/g/n/ac Dual Band (2.4GHz, 5GHz) Security: WEP, WPA, WPA2, Dynamic WEP, DHCP Option 81	
Remote Access	SNMP Ver.3, HTTPs, SATO Alerte	
Supported printer protocols	Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL, SIPL, STCL, SEPL	

OPERATING CHARACTERISTICS	CL4NX PLUS	CL6NX PLUS
Power Requirements	AC100V ~ AC240V±10%, 50/60 Hz, Auto-ranging Power Supply	AC100V ~ AC240V±10%, 50/60 Hz, Auto-ranging Power Supply
Environment — Operating	0 - 40°C / 30 - 80% RH (without condensation)	
Environment — Operating Linerless	5 - 35°C / 30 - 75% RH (without condensation)	
Environment — 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)	20Kg (42 lbs)
Display Panel	TFT Full Color LCD, 3.5"(320 x 240 RGB)	

MISCELLANEOUS	CL4NX PLUS	CL6NX PLUS
UHF and HF options standard	UHF:a ISO 18000-6 Type C HF: ISO 1569593 & ISO 14443 Type A. Phase Jitter Modulation: 100% reading accuracy even when tags are stacked.	UHF: ISO 18000-6 Type C
RFID Features	Fully integrated UHF RFID Reader / Encoder Module. Void marking of damaged or unreadable transponders, RFID data verification after programming. Multiple RFID power settings allow users to use individual transponder sizes, DIP (Direct Inlay Printing) allows use of short pitch labels. PWP allows flexible inlay positions, TID reading and printing as text and barcode.	
Functions – Useful features	Micro Label Printing, SATO Application Enabled Printing, SATO Online Services, 18 User Guidance Videos on Color LCD, Space for Customized Videos, Multi Language Support 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	