

Smart printing made simple.



CT4-LX

Next Generation 4" Smart Desktop Printer



[satoeurope.com](http://satoeurope.com)

# CT4-LX Technical Specification

PRINTING SPECIFICATION			
Printing Method	Direct Thermal / Thermal Transfer		
Print Mode	Continuous, Tear-off, Cutter, Dispenser, Linerless		
Print Resolution	8 dots/mm (203 dpi)	12 dots/mm (305 dpi)	
Print Speed	[203dpi] 2, 3, 4, 5, 6, 7, 8 inches/second (Default: 4 inches/second) *Linerless specification: 2, 3, 4 inches/second		[305dpi] 2, 3, 4, 5, 6 inches/second *Linerless specification: 2, 3, 4 inches/second
Printable Area	Maximum 203 dpi: Length 2500 mm (98.43") x Width 104 mm (4.09")		Maximum 305 dpi: Length 1500 mm (59.06") x Width 104 mm (4.09")
Processor	ARM® Cortex™-A9 1GHz		
Printer Memory	ROM 4GB Standard (eMMC memory) (used as program area and user area), RAM 1GB DDR3 SDRAM		
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, center aligned, face-in and face-out.		
Media Thickness	0.08 - 0.19 mm (80 - 190 μm) (0,031" - 0,075")		
Label Shape	Roll Diameter	Maximum 128 mm (5.0") on 40 mm (1.5") core for RFID ø115	
	Wind Direction	Face Out	
Label Size (Without Liner)	Continuous	Width	22 - 115 mm (0.87" - 4.53")
		Length	7 - 397 mm (0.27" - 15.6")
	Tear-Off	Width	22 - 115 mm (0.87" - 4.53")
		Length	22 - 397 mm (0.87" - 15.6")
	Cutter	Width	22 - 115 mm (0.87" - 4.53")
		Length	20 - 397 mm (0.79" - 15.6")
	Dispenser	Width	22 - 115 mm (0.87" - 4.53")
		Length	20 - 397 mm (0.79" - 15.6")
	Linerless	Width	25 - 110 mm (0.98" - 4.33")
		Length	25 - 100 mm (0.98" - 3.94")
Ribbon	Size	Max. length: 100 m (3937"). Max. roll diameter: 40 mm (1.5"), Ribbon width : 45 mm (1.77") to 111 mm (4.37"), Wind direction: Face Out	
FONTS / SYMBOLOGIES			
Internal Fonts	Standard Bitmap	U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A	
	TTFonts	SATO CG Sleek, SATO CG Stream, Sato Gamma (Bold, Italic, Bold Italic), Sato Vica (Bold, Italic, Bold Italic, Light Condensed), Sato Folio Bold, Sato Vica Light Condensed, Sato Alpha Bold Condensed, Sato 0, SATO 0 Bold Condensed, Sato Futura Medium Condensed, Sato OCR-B, Sato Symbol Set, Sato Sans(Bold), Sato Serif(Bold), Sato Beta Bold Italic, SATO Folio Bold, SATO WingBats	
	Encoding	Major Latin and Pan-European Code Pages (WGL4Compatible), GB18030 (simplified), KSX1001 (Korean), BIG5 (traditional), JIS, SHIFTJIS, UTF-8 and UTF-16BE also supported	
Barcode	Linear	UPC-A, UPC-E, Code 39, Code 93, Code 128, GS1-128 (UCC/EAN128), CODABAR (NW-7), ITF, Industrial 2 of 5, NEC Matrix 2 of 5, Matrix 2 of 5, MSI, Customer barcode, 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 Symbologies	PDF417 including Micro PDF, Maxi Code, GS1 Data Matrix, Datamatrix (ECC200), QR Code including Micro QR, Aztec code	
Print Direction	Character data rotation: 0°, 90°, 180°, 270°   Barcode rotation: 0°, 90°, 180°, 270°		
User Downloadable Fonts, Graphics or Formats	Maximum 100MB		
INTERFACE CHARACTERISTICS AND INTEGRATION			
Interfaces	Wireless LAN	IEEE 802.11a/b/g/n/ac TCP/IP, LPR, FTP, SNMPv3, NTP, HTTP, DHC Pv4, Stateless automatic setting, Stateful automatic setting (DHCPv6)	
	USB (Standard)	USB2.0 Type B HighSpeed device, 2 x USB Type A 2.0 HighSpeed host	
	LAN (Standard)	10BASE-T/100BASE-TX/1000BASE-T, Protocol TCP/IP: LPR, FTP, SNMPv3, NTP, HTTP, DHCPv4, DHCPv6	
	Bluetooth	Ver 4.1, (Ver 1.x, 2.x, 3.0, 4.0 compatible) Profile: SPP, HID, LAP, DUN, HSP, TIP, A2DP, Master, slave	
	NFC (Standard)	TCP/IP, LPR, FTP, SNMPv3, NTP, HTTP, DHC Pv4, Stateless automatic setting, Stateful automatic setting (DHCPv6)	
Display Panel	4.3 TFT Full Colour (480 x 272), Resistive Touch Display		
Large Status LED	Blue/Red		
Multi National Language Support	47 Languages and Scalable Print Fonts, 31 Languages for LCD Menu		
Operation and Customer Videos	21 preset videos including media loading, parts replacement, option installation, cleaning etc. 1 GB space available for storing and playing customer videos with sound (onboard speaker)		
Peripheral Devices	Connect peripheral devices like scanner, keypad and keyboard directly to the printer for data input		
Remote Maintenance	SNMP Ver. 3 HTTPs		
Preventive Maintenance	SOS (SATO Online Services)		
Supported printer protocols	Standard: SBPL (SATO Barcode Printer Language)		
OPERATING CHARACTERISTICS			
Power Requirements	Input: AC100V~AC240V±10%, 50/60 Hz, (AC adapter) Output: DC24V ±5.0% 2.7A		
Environment	Operating	0 - 40 °C / 30 - 80 % RH (non-condensing)	
	Storage	-10 - 60 °C / 15 - 90 % RH (non-condensing)	
Dimensions	178 mm x 238 mm x 214 mm (7.0" x 9.4" x 8.42")		
Weight	3.4Kg (7.5 lbs)		
MISCELLANEOUS			
Standards & Agency Approvals	EN60950-1, EN55032, EN55024, ETSI EN301 489-7/-3/-17, ETSI EN 300 330, ETSI EN300 208-2/-1(Passive Tag), RA, EAC		
Functions - Useful features	Multiple Interfaces-Auto-switching, USB Memory for data copy, Status return, Alarm Sound		
Functions - Self Diagnosis Checking	Thermal head check, Label End Sensor, Ribbon Near-End and End Sensor, Test print, Cover Open detection		
OPTIONS			
Accessories	Cutter, LinerlessCutter, Dispenser kit,RS-232 kit, Real-Time Clock, Wireless LAN - Bluetooth kit, RFID UHF & HF (Factory)		
RFID SPECIFICATION (Optional)			
UHF and HF options available	Standard	UHF: ISO/IEC18000-63 HF: ISO/IEC 15693 & ISO/IEC4443 Type A/FeliCaLite. *Please contact SATO for release timing of HF.	
	Frequency	868 - 960MHz and 13.56 MHz	
	Protocols	EPC Gen 2 Class 1, NXP, Impinj, Alien & others	
	RFIDFeatures	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.	
	Gen2Memory	Expanded EPC, User Memory, TID (96bit), Access password, Kill password, Lock	

Version: December 2019. Specification subject to change without notice.



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