

Smart printing made simple.



CT4-LX

Next Generation 4" Smart Desktop Printer



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")	22 -128mm 0.87" - 5.0"
		Length	7 - 397 mm (0.27" - 15.6")	6-1497mm 0.24" - 58.9"
	Tear-Off	Width	22 - 115 mm (0.87" - 4.53")	22-128mm 0.87" - 5.0"
		Length	22 - 397 mm (0.87" - 15.6")	17-1497mm 0.67" - 58.9"
	Cutter	Width	22 - 115 mm (0.87" - 4.53")	22-128mm 0.87" - 5.0"
		Length	20 - 397 mm (0.79" - 15.6")	17-1497mm 0.67" - 58.9"
	Dispenser	Width	22 - 115 mm (0.87" - 4.53")	22-128mm 0.87" - 5.0"
		Length	20 - 397 mm (0.79" - 15.6")	27-397mm 1.06" - 15.6"
	Linerless	Width	25 - 110 mm (0.98" - 4.33")	60 -118mm 2.36" - 4.6"
		Length	25 - 100 mm (0.98" - 3.94")	30-120mm 1.2" - 4.9"
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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