



**Industrial Thermal Printer** 





www.satoeurope.com

## Run All-in-One functions anywhere at any time.

# SATO, Beyond Expectations

SATO's First Truly UNIVERSAL Industrial Label Printer Engineered for the Most Demanding Printing Needs.

## Durable Design

- Metal Construction, Heavy Aluminum Durability
  - Built with strength to withstand the demands of industrial printing applications and environments
  - Die-Cast Aluminum print head mechanism provides consistent label and ribbon movement, virtually eliminating label shift or ribbon wrinkling
  - Base plate design enables the printer to be secured to raised and uneven platforms and for media to be fed from underneath



Plug-and-Play

### Support for a variety of media types

- Inside or outside wound ribbons & labels
  - New mechanism allows the use of a wide variety of media including media produced for other popular makes of industrial barcode printers
     No adjustments or accessories are required
  - No adjustments or accessories are required





### Superior Print Accuracy and Quality

### New Darkness Range for Higher Energy Settings

- Enhanced settings allow printing of challenging materials in almost any environment
- Excellent quality print at high speeds



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## Space Saving Design

- Bi-fold Side Cover
  - Reduces overall area required for operation by 54%
  - The CL4NX has a reduced horizontal footprint and requires less headroom in under-table applications



### LTDS (Label Tension Damper System)

- The innovative LTDS system enables the use of large label rolls
- LTDS provides a controlled backfeed tension and label tracking to ensure top quality print and accuracy



### User Friendly Operation

### Easy to Use

- Ultimate User-friendly icons and multi-national language support on the full-colour display
- Highly prominent power-on button and status indicator
- Password facility to avoid unintentional adjustment
- Full Color Interactive LCD Display
  - Assembly of on-display video tutorials show the operation of the CL4NX and valuable instruction to new operators
  - Under error conditions, comprehensive messages are displayed and help videos guide the corrective action needed

Error



Simple-to-Operate





## Multiple on-board interfaces as standard

#### Includes built-in LAN

- New design allows for multiple communication port connection with auto-selection
- Support for Internet Protocol version 6 • Simplifies installation in both legacy and
- new applications using a single printer model
- USB ports at front and rear for printing and downloading fonts, firmware, emulations and the copying of printer settings
- Send print data from external devices such as tablets via the Bluetooth interface using SATO AEP







## Standard Emulations on-board

 Auto-detect function provides straightforward switching from SATO legacy models or other popular makes of barcode printers
 Supports SBPL, SDPL, SZPL, STCL, and SIPL

## Multi-National Language Support

### > 30 Display & 47 Print Languages Support

- All major world languages covered
- Remote maintenance capabilities allow users to control and monitor printers anywhere in the world regardless of language setting



Setting

### Industry best design of high-lift printhead mechanism

 Best in class printhead opening of 60° (across the full width) for easy access, fast maintenance and media loading

On-line

• Fully tool-less printhead and platen system for quick and easy replacement



### High Speed Processing and Throughput

### Industry Leading Throughput

 100MB user accessible memory allows for storage of formats, large graphics, custom fonts and other downloads allowing for faster throughput



## TECHNICAL INFORMATION

PRINTING SPECIFICATION				CL4NX		
Printing Method			Direct Thermal / Thermal Transfer			
Print Resolution Max. Print Speed			8 dots / mm (203 dpi) 10 ips (254 mm/sec)	12 dots / mm (305 dpi) 8 ips (203 mm/sec)	24 dots / mm (609 dpi) 6ips (152 mm/sec)	
Max. Print Area	Width, mm (inc	-h)	104mm(4.1″)	0105 (205 mm, 500)		
	Length, mm (in		2500mm(98.43")	1500mm(59.1")	400mm(15.7")	
Processor Printer Memory		Dual CPU & Dual OS: CPU 1: 2GB ROM, 256MB RAM for Linux OS, CPU 2: 4MB ROM, 64 MB RAM for ITRON OS 2GB ROM, 256MB RAM				
CONSUMABLES	S SPECIFICAT	ION (Reco	mmended to use printer su	upplies manufactured or c	ertified by SATO)	
Sensor Type			I-Mark Sensor (Reflective), Label Ga	ap Sensor (Transmissive)		
Media Type				paper face stock, Synthetics and Cont	inuous stock	
Media Thickness			0.06 - 0.26mm (0.002" to 0.01")			
Label Shape	Diameter		Maximum 220mm (8.6") on 76mm (3") internal core diameter Core diameter: Ø 76mm (3.0"), Ø 101mm (4.0")			
	Wind Direction		Face In / Face Out. No Setting Change Required			
Label Size	Continuous	Width	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")	
		Length	6 to 2497mm (0.24" to 98.3")	6 to 1497mm (0.24" to 58.9")	6 to 397mm (0.24" to 15.6")	
	Tear-Off	Width	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")	
	Cuttor	Length	17 to 2497mm (0.24" to 98.3")	17 to 1497mm (0.24" to 58.9")	17 to 397mm (0.24" to 15.6") 22 to 128mm (0.87" to 5.0")	
	Cutter	Width	22 to 128mm (0.87" to 5.0") 17 to 2497mm (0.24" to 98.3")	22 to 128mm (0.87" to 5.0") 17 to 1497mm (0.24" to 58.9")	17 to 397mm (0.24" to 15.6")	
	Dispenser	Length Width	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")	22 to 128mm (0.87" to 5.0")	
	Dispenser	Length	27 to 397mm (0.67" to 15.6")	27 to 397mm (0.67" to 15.6")	27 to 397mm (0.67" to 15.6")	
	Linerless	Width	32 to 128mm (1.3" to 5.0")	32 to 128mm (1.3" to 5.0")	32 to 128mm (1.3" to 5.0")	
		Length	30 to 120mm (1.2" to 4.9")	30 to 120mm (1.2" to 4.9")	30 to 120mm (1.2" to 4.9")	
Ribbon	Size		Max. Length: 600m(1969') Max. Length will be 450m (1476') when ribbon width is 39.5mm. Max. Roll Diameter: 90mm(3.5"), Ribbon width : 39.5mm(1.55") to 128mm(5.04")			
	Other		Max. Roll Diameter: 90mm(3.5°), Ribbon width : 39.5mm(1.55°) to 128mm(5.04°) Core diameter: Ø 25.4mm (1″), Wind direction : Face In/ Face Out, No Setting Change Required			
FONTS / SYMB						
Internal Fonts	Standard Bitmap		U, S, M, WB, WL, XS, XU, XM, XB, XL, OCR-A, OCR-B			
	TTF Fonts		CG Times, CG Triumvirate, Sato Gamma (Bold, Italic, Bold Italic), Sato Vica (Bold, Italic, Bold Italic), Sato Folio Bold,			
			Sato Vica Light Condensed, Sato Alpha Bold Condensed, Sato 0 Bold Condensed, Sato Futura Medium Condensed, Sato OCR-B, Sato Symbol Set, Sato Wingbats, Sato Sans(Bold), Sato Serif(Bold), HGMLAG, Sato Beta Bold Italic,			
			Helvetica, Universal, Universal Condensed Bold, AR Hebe Sans, AR SilverS erif, AR Hebe Sans Farsi, Other Asian True			
			Type fonts, Optional Downloaded TrueType fonts, scalable from 8 to 72 points			
	Encoding		UPC-A/E, JAN/EAN-8/13, Code 39, Code 128, GS1-128 (UCC /EAN128), Codabar (NW–7), Industrial 2 of 5, Bookland			
Barcode	Linear		Code 39, Code 93, Code 128, CODABAR (NW7), EAN8/13, GS1-DatabarTM, GS1-128(UCC/EAN128), Interleaved 2/5, Industrial 2/5, JAN8/13, Matrix 2/5, MS1, Bookland, PostnetTM, UPC-A/E			
	2D Symbologies		PDF417, Micro PDF, Maxi Code, GS1 Data Matrix, QR Code, Micro QR Code and Composite Symbologies			
Print Direction			Barcode rotation: 0°, 90°, 180°, 270	0		
User Downloadable Fe	onts, Graphics or Fo	ormats	Maximum 100MB			
INTERFACE CH	ARACTERISTI	CS AND IN	ITEGRATION			
Interfaces	RS232		RS232C Standard (XON/XOFF, RTS/	CTS)		
IEEE1284 USB LAN Bluetooth		IEEE1284				
		USB Device type B connector 2.0 High Speed, USB Device type A (2 ports)				
		Ethernet 10/100 Mbps / DHCP(ipv4 / ipv6), TCP/IP				
		Version 3.0 + EDR Class 2				
EXT			Amphenol D-Sub14pin female			
Optional Interface Remote Maintenance			Wireless LAN (WiFi and CCX Certified), IEEE 802.11a/b/g/n, Dual band (2.4GHz, 5GHz) SNMP Ver. 3, HTTPs			
Remote Maintenance Supported printer protocols			SNMP Ver. 3, HTTPS Standard: SBPL (SATO Barcode Printer Language) Emulation Language: Auto detect - SZPL, SDPL, SIPL or STCL			
					and detect - JZFL, JDFL, JIFL OF STCL	
<b>OPERATING CH</b>	IARACTERIST	ICS				
Power Requirements				AC100V~AC240V±10%, 50/60 Hz, Auto-ranging Power Supply, Energy Star – Compliant,		
Environment	Operating		$0 - 40 \circ C / 30 - 80 \% RH$ (without condensation)			
Display Panel	Storage			-20 – 60 °C / 30 – 90 % RH (without condensation) TFT Full Color LCD, 3.5"(320 (RGB) *240)		
Dimensions			271mm (10.6") x 457mm (17.9") x 3			
Weight			15Kg (33 lbs)	2		
MISCELLANEO	05					
Certifications					'Australia), S-Mark (Argentina), ROHS compliant	
Regulatory Approvals Functions – Useful fea			Noise: Emission –EN55022 Class A, EN55024 Guidance Video on LCD, Multi Language support LCD message (30 Languages), Energy Saving, Large Status LED,			
			Multiple Interfaces-Auto-switching	, USB Memory for data copy, Status re	turn, Alarm Sound	
Functions – Self Diagr	nosis Checking		Thermal head check, Paper end de	tection, Ribbon end detection, Test pr	int, Head Lift detection	
OPTIONS						
Accessories			Cutter, Dispenser with Internal Back	king Paper Rewinder, Linerless kit, Real-	Time Clock, UHF RFID, SATO Label Gallery™	
<b>RFID SPECIFIC</b>	ATION (optior	nal)				
UHF	Standard		ISO18000-6 Type C			
	Frequency		868 – 920MHz			
	Protocols		EPC Gen 2 Class 1, NXP, Impini, Alien			
	RFID Featu	res	Void marking of damaged or unrea	dable transponders, RFID data verificat	ion for optimal transponder performance, ion after programming, Multiple RFID power	
					rinting) allows to use short nitch labols down	
				ble inlay positions, TID reading and prin	rinting) allows to use short pitch labels down ting as text and barcode	

