

SATO

CL Series

Thermal Transfer Printers

CL408 CL412
CL608 CL612



- Thermal Transfer/Direct Thermal
- 203/305 dpi Print head
- 4" to 6.5" Wide Print Area
- High Speed 32-Bit RISC Processor
- 16 Bar Code Symbologies Including 2-D Codes
- User Replaceable Print Head
- Parallel and/or Serial Interface
- Options: 2 PCMCIA Expansion Slots, Label Cutter, Label Dispenser, Label Rewinder, Real Time Clock

The CL Series printers offer a wide range of labeling solutions, from features such as the production of superior images to a 6.5" wide print area. Advanced performance, high value printers that are truly SATO through and through. The CL Series maintains the SATO tradition of designing reliable, rugged printers while adding high value and production performance.

The CL printers incorporate a 32-bit high speed RISC processor for maximum performance. You can now create labels with a print area up to 6.5" wide with high throughput even when text and/or graphics changes between labels. Even UCC/EAN-128 Serialized Shipping Container labels. Automatic incrementing serial numbers and check digits are produced without pausing between labels. Built into every CL printer is the exclusive SATO print head control feature, which constantly monitors print head conditions and automatically adjusts print energy for optimum and consistent print quality.

Popular bar code symbologies, including the new 2-D codes, plus proportional and mono-spaced fonts are built into the printers for great looking labels with minimal programming. Plus True Type® fonts can be downloaded to be used as internal fonts.

For virtually unlimited flexibility, the CL printers incorporates two PCMCIA expansion slots. By installing one or two PCMCIA cards, users can add up to 4Mb of additional memory to store formats, fonts and graphics or extend the print area. Users can develop an unlimited library of PCMCIA cards to meet their needs.

CL Series

Specifications:

Printing Method:

Thermal Transfer/Direct Thermal

Bar Code Symbology:

UPC-A/E, EAN-8/13, Code 39, Code 93, Code 128, I 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Codabar, MSI, Bookland, POSTNET, UCC/EAN-128, PDF417, Maxicode, Data Matrix

Bar Code Ratio:

1:2, 1:3, 2:5 or individually adjustable bar widths

Human Readable Fonts:

12 proportional and mono-spaced fonts including OCR-A and OCR-B, and outline font. American and European characters, upper and lower case with descenders.

Graphic Support:

SATO Hex/binary format
.PCX format

Bar Code Height:

User Programmable, 4 to 600 dots

Flexibility:

Rotation of bar codes and text in four 90° steps, RAM storage for special characters, dot-addressable graphics and sequential numbering. Form overlay for high speed editing of complex formats.

Sensing:

Transmissive sensor for die cut labels and tags. Reflective sensor for use with preprinted sensing marks. Automatic or programmable setting of top of form.

CL4XX Sensors: Movable

CL6XX Sensors: Fixed

Media:

Roll or fan-fold die cut labels, plain paper face stock, SATO standard or equivalent. Tag stock, SATO standard or equivalent with punched feed slot for "see through" sensing or sense mark for reflective sensing. Continuous stock using software control.

Maximum caliper: 0.01" (0.25 mm)

Maximum roll diameter: 8.6" (218 mm)

Wind: Face-In

Minimum Roll core diameter: 1.5" (38 mm)

Print Control:

User programmable via data stream.

Ribbon:

Width max: 4.4" (111 mm) for CL4XX
6.5" (165 mm) for CL6XX

Length: 1475' (450 m) for CL4XX
1345' (410 m) for CL6XX

External Connectors:

Parallel: 36-pin Amp

Serial: DB-25F

Ext. (Accessory): 14-pin Amp

Backfeed:

Adjustable

Data Transmission:

ASCII

Environment:

Operating: 41° to 104° F (5° to 40° C)
15-85% RH, non-condensing

Storage: -0° to 104° F (-20° to 40° C)
90% RH, non-condensing

ESD Immunity: 8Kv

Approvals:

FCC Class A, U/L, CSA, CE

Options:

Label Cutter
Label Dispenser
PCMCIA Memory Expansion
Real Time Clock
Twinax/Coax Interface

ISO 9002
CERTIFIED



FEATURES:	CL408	CL412	CL608	CL612
Printing Speed:	up to 6" per second (150 mm/second)		up to 8" per second (200 mm/second)	
Print Resolution	203 dpi (8 dots/mm)	305 dpi (12 dots /mm)	203 dpi (8 dots/mm)	305 dpi (12 dots /mm)
Print Area:	4.1" W x 14 " L (104 mm W x 356 mm L)		6.0" W x 14" L (152 mm W x 356 mm L)	6.5" W x 14" L (164 mm W x 356 mm L)
Max. Print Length w/ 2 MB Memory Card:	49.2" (1249 mm)	32.8" (833 mm)	49.2" (1249 mm)	27.7" (704 mm)
Media Size Minimum:	0.87" W x 0.24" L (22 mm W x 6 mm L)		1.96" W x 0.78 " L (50 mm W x 20 mm L)	
Media Size Maximum:	5.1" W x 14 " L (131 mm W x 356 mm L)		7.0" W x 14" L (178 mm W x 356 mm L)	
Interfaces:	Centronics Parallel or RS232C (2,400 - 19,200 BPS), (Ready/Busy and XON/XOFF) or RS-422/485		Centronics Parallel and RS232C (2,400 - 19,200 BPS), (Ready/Busy and XON/XOFF)	
Switches: LCD Panel: LED Indicators:	LINE, FEED 2 Line x 16 Character ONLINE, ERROR		LINE, FEED ONLINE, ERROR, POWER LABEL, RIBBON	LINE, FEED 2 Line x 16 Character ONLINE, ERROR, POWER, LABEL, RIBBON
Overall Dimensions:	10.7" W x 16.9" D x 12.6" H (271 mm W x 430 mm D x 321 mm H)		13.8" W x 16.9" D x 11.7" H (352 mm W x 430 mm D x 298 mm H)	
Weight:	28.7 lbs (13 kg)		41.9 lbs (19 kg)	
AC Power:	110V (± 10%), 220V (± 10%), 50/60 Hz (± 1%) Idling: 50W Operating: 130W		110V (± 10%), 220 (± 10%), 50/60 Hz (± 1%) Idling: 50W Operating: 210W	

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