CG4
(CG408 and CG412)

PRODUCT GUIDE

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ABOUT SATO

SATO is a global barcode & RFID technology company that focuses on data collection and label printing solutions. We focus on retail, industrial, transportation & logistics and government sectors. Our solutions enable businesses to identify, track and manage people, products and assets.

Founded in 1940, the company has been throughout its history, at the forefront of the industry's successful efforts to extend the use of auto identification technologies to improve businesses' operational efficiency and optimize use of resources. SATO is a public listed company in Japan and has worldwide offices in over 22 countries and global coverage through business partners. It has label conversion in over 13 countries and product manufacturing facilities in Vietnam, Japan and Malaysia. It offers unparallel customer service support across geographies and channels.

Data collection and label printing solutions
Data collection solutions:
- Barcode & RFID Scanners, Hand held & fixed terminals, mobile computers, RFID Gates and software

Label printing solutions:
- Barcode & RFID label printing using thermal printers, print engines. Price marking hand labellers and labels.
- General adhesive labels; prime & seal labels; tags; carbon ribbons; RFID Labels & Tags; Specialty Labels; Care Labels; Wristbands, Horticulture labels & tags and custom-made labels.

Market Focus
SATO combines its technology strengths with industry expertise to give its customers and partners unique ways to use AIDC technology for long-term competitive advantage.
The key verticals we focus on are: Retail, Manufacturing, Transportation & Logistics; Healthcare; Government; Hospitality & Commercial Services;

Corporate Social Responsibility
Corporate Responsibility is an integral aspect of SATO's business operations. It is more than a guiding principle: it is embedded in its business solutions that help customers reduce inefficiencies, eliminate waste, and conserve resources.

SATO aims to use technology to improve business processes in a way that is environmentally sound, complies with national and regulatory requirements, and reduces costs by conserving energy and other natural resources, and ultimately reduces the carbon footprint of businesses.

For more information about SATO worldwide, please visit, http://www.satoworldwide.com

POSITIONING SUMMARY

- Entry-level, affordable and compact thermal printing solution for low to- to medium-volume labelling applications
- Designed for a wide variety of uses ranging from small office shipping labels to compliance and general purpose product identification labels and tags. Stock rooms and warehouses, medical laboratories, commercial kitchen and food preparation areas, automobile service shops, shipping and mail centres and entertainment venues are all typical examples of environments that would benefit from a compact printing solution.

PRODUCT NOMENCLATURE

All printer models are part of the CG4 series.

CG4xx xT

x Print Method
DT Direct Thermal – CG4 DT model
TT Thermal Transfer – CG4 DT model

xx Resolution
08 dpm / 203 dpi – CG408 model
12 dpm / 305 dpi – CG412 model

4'' Width
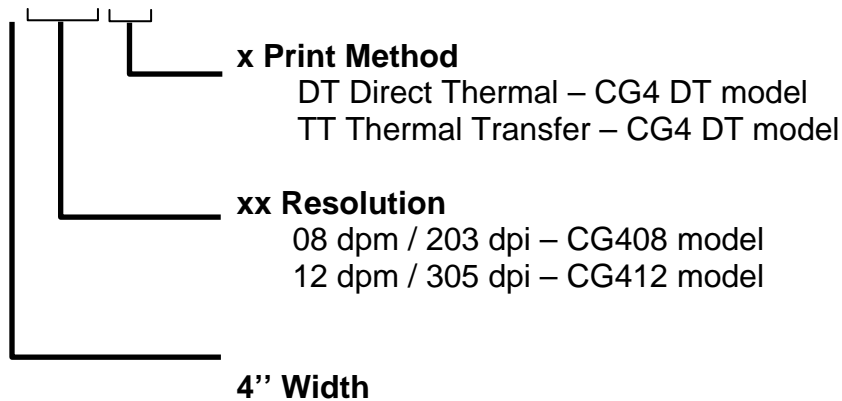
UNIQUE SELLINGS POINTS

Great Value for your printing solution

CG4 offers the **best <u>price-feature value desktop printing solution</u>** in the compact printer class.

With its 32-bit RISC CPU, 4 ips print speed, and 4MB Flash/8MB SDRAM Memory as well as optional accessories, the versatile CG4 is equipped to meet the requirements for a wide range of printing applications.

The new product development process has focused on optimizing product design and manufacturing to deliver a printer that solves the customers' printing needs better than any other and provides rapid and measurable return on investment.

OTHER SELLING POINTS

Space-saving Footprint

The printer's small footprint saves precious counter space and is designed to fit in tight spaces.

Standalone Printing

No PC required at time of printing

The CG4 with SATO Keypad* can be operated as a standalone printing system without the need for a PC at the time of printing. Using the keypad label design software provided, label formats can be created and then downloaded into the keypad internal Flash ROM memory or on an SD card. At the time of printing, the operator can enter variable data using the alphanumeric keypad or external PC Keyboard., or capture date through a barcode scanner The pre-stored label is called on later when required and print data is sent to the CG4 for printing.

Optional accessory.

High Quality Printing

The CG4 series is available in 203 dpi or 305 dpi resolution. 305 dpi will be required to print text and barcodes, including 2D barcodes, on very small labels, such as those commonly used in the electronics or pharmaceutical industries for component or specimen labelling. Scanning and reading data is made easier by the sharp, crisp print quality. For applications requiring a great deal of information in a small space, higher density printing is recommended. The CG4 is an ideal printing solution to support the latest 2D barcode symbologies, including GS1 DataBar (formerly Reduced Space Symbology (RSS)).

Flexible Connectivity

CG4 offers 3 combinations of communication interface options as standard: RS232C and USB; LAN and USB; or USB and IEEE 1284 interface on-board. The CG4 delivers advanced, secure connectivity making it easy to integrate with existing systems.

User-friendly Operation & Maintenance

Media loading: drop-load-ready

The clam shell design makes it easy to load media by simply "dropping in" the labels. The simple label mechanism design allows even an inexperienced user to load in labels. Ribbon loading is just as easy; it takes seconds, with the high-lift printhead giving easy access to load the ribbon. Colour-coded user instructions make it intuitive to load labels and ribbons.

Printer Maintenance: tool-less, hassle-free

The one-touch, tool-less print head release mechanism enables the print head to be quickly, easily replaced.

Printer Platen Roller can be replaced without the need for any tools.

Competitive Printer Language Compatibility

Multiple printer language options enables replacement of competitive printer models with minimal reprogramming of data streams.

Large Printer Memory

The CG4 Printer has a large memory of 4MB Flash ROM and 8 MB SD-RAM that allow the storage of extra graphics or fonts and firmware upgrades.

Safe for use in clean environments

The CG4 is designed for use in environments where cleanliness and hygiene are important and a high level of safety vital.

The printer's anti-microbial casing is manufactured using an inorganic antimicrobial material. This material has been shown to have an antimicrobial effect against a wide spectrum of bacteria, fungi and other micro organisms. It has silver and other ions with antimicrobial power bonded into its mineral structure and stabilized. They are seldom eluted out with water or solvent, so the antimicrobial effect can last a long time. Its life span and thermal stability makes it an important composition material in products used in clean environments.

Labelling in sterile environments such as medical labs, food preparation and kitchen areas, cosmetic and pharmaceutical processing plant can benefit from the protection of the anti-microbial material.

PRODUCT POSITIONING
Internal Product Lineup Positioning

The CG4 Series is categorized under the 'Compact Series' in the SATO product lineup. It is part of the CG printer family together with the CG2 series. The CG4 is an entry-level, desktop thermal printing solution designed for low to- to medium-volume labelling applications

List Price

- Print Resolution: 203/305 dpi
- 4" Mobile Printer
- Direct Thermal
- Max Printing Speed: 4ips

MB4i

- Print Resolution: 203/305dpi
- High End 4" Desktop Printer
- Thermal Transfer/Direct Thermal
- Max Printing Speed: 6ips (CT408i)

CT4i

MB2i

CG4

- Print Resolution:203dpi
- 2" Mobile Printer
- Direct Thermal
- Max Printing Speed: 4ips

- Print Resolution: 203/305dpi
- New Entry Level 4" Desktop Printer
- Thermal Transfer/Direct Thermal
- Max Printing Speed: 4ips

CX4

- Print Resolution: 203/300dpi
- Entry Level 4" Desktop Printer
- Thermal Transfer/Direct Thermal
- Max Printing Speed: 4ips(CX400)

- Print Resolution: 203/305dpi
- New Entry Level 2" Desktop Printer
- Thermal Transfer/Direct Thermal
- Max Printing Speed: 4ips

CG2

US$500

Mobile   **Compact Desktop**   **Performance**

Desktop Printer Position Versus Competition

List Price

$

1000

500

Zebra TLP3842

Zebra GK420d

Zebra GX Series

Datamax E-series

CG 4

Intermec PC4 Series

Intermec PF8d/t & PC4 /Series

Performance (Print Speed & Resolution)
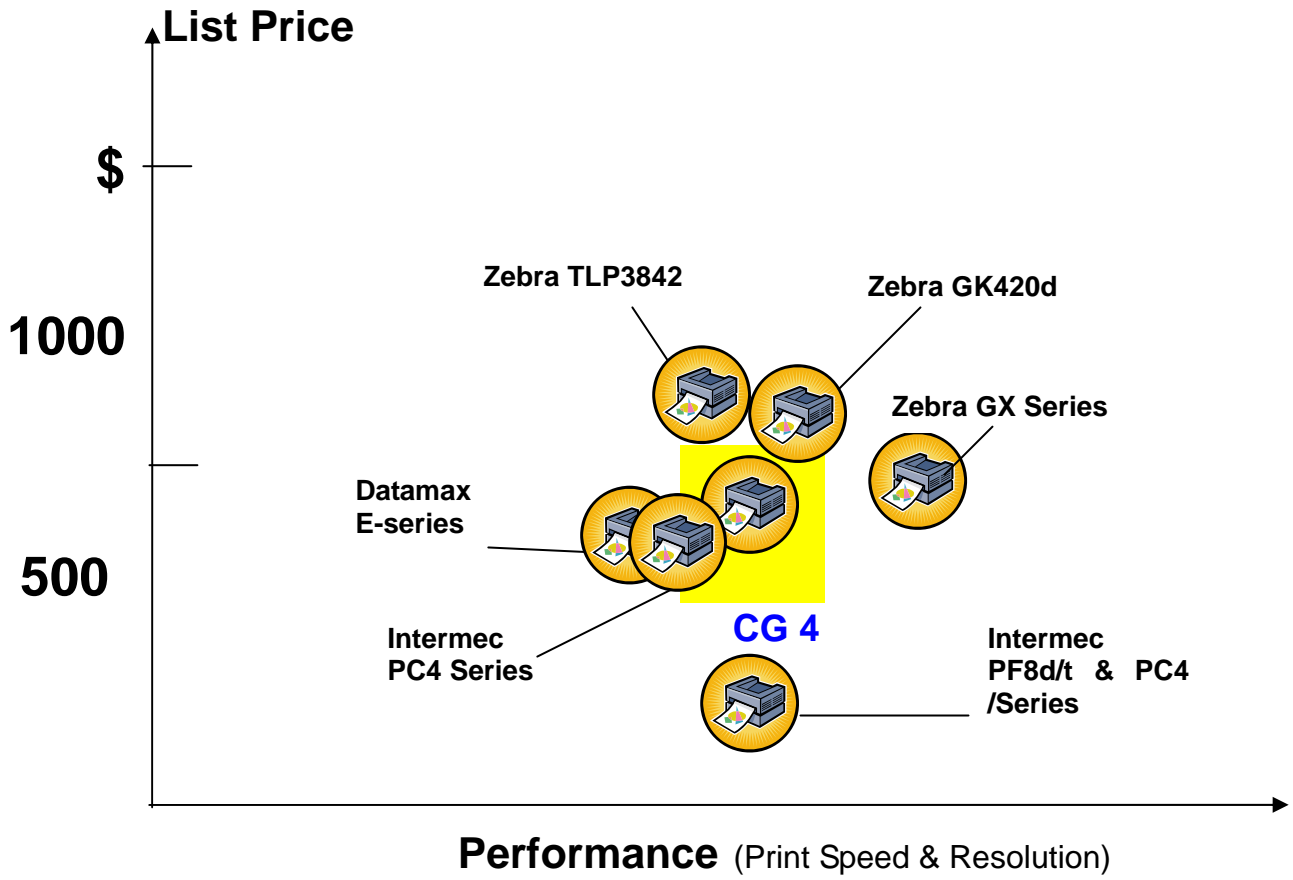
TARTGET MARKET AND APPLICATIONS

RETAIL
- Price markdown labels & tags
- Garment hang tags / swing tickets
- Shelf-edge labels
- Price labels & tags
- Price markdown labels & tags
- Promotional labels & lags
- Inter-store transfer labels
- Returns labels

LOGISTICS / WAREHOUSING / SUPPLY CHAIN
- Receiving labels
- Location labels
- Small carton or case labels
- Shipping labels
- Warehouse rack or shelf labels
- Asset tracking

HEALTHCARE
- Patient ID labels
- Specimen labels
- Prescription labels
- Script document tracking
- Safety labels
- Sterile equipment labeling
- Laboratory work orders

FOOD PREPARATION & FOOD SERVICE
- Ingredients or nutrition facts labels
- Prepared food labels
- Expiry or use-by date labels
- Date coded labels

LIGHT INDUSTRIAL / MANUFACTURING
- Asset management
- Quality tracking
- Shipping labels,
- WIP applications
- Shelf labels

OFFICE
- Small office shipping labels
- File or folder labels
- Asset identification labels

FIELD SERVICE
- Service records and invoices
- Certification and Conformance labels

HOSPITALITY, SERVICE & LEISURE
- Visitor/guest identification
- Parking passes
- Boarding passes
- Evidence tracking
- Event & exhibition ticketing
- Bag tags
- Gaming & betting slips

POST & PARCEL
- Postage marks
- Mailing labels
- Receipts

![SATO DCS & Labelling Worldwide]

LABEL SAMPLES
Carton Label

FERTIZ *products*

PRODUCT NAME:

FF232163214

IDENT: **12345**   QUANTITY: **10**   UM:

PRODUCTION DATE: **010109** EXP. DATE: **010109** HAZARDOUS MAT.N.:

GR DOCUMENT: **123456**   BATCH: **44445**   HRD132312kg

```
3 830001 234565
```

```
(240)123456(37)10(15)010109(10)44445
```

Product Label

FERTIZ *products*

Product:

FF232163214

HM: **HRD132312**

Exp date: **010109**

Batch: **4445**   kg

GRD: **123456**   12345

                         10

```
3 830001 234565
```

SATO
DCS & Labelling Worldwide

Food Label

| | ECLAIRS AU CHOCOLAT COLLECTIVITE | 1 |

Service Consommateur :
Paris Pâtissier
PP 12- 34 567 Morangis

A conserver entre 0 et 4°C

Date de fabrication: 22/01/2010

A consommer jusqu'au :

28/01/2010

F
91-432-20
CEE

ECLAIRS AU CHOCOLAT COLLECTIVITE

Nbre pièces/colis : 16   Poids net/pièce : 50 g   Poids net/carton: 0.8 kg

Ingrédients:
PATE 30% : œufs entiers, eau, farine de blé, margarine (huiles et graisses végétales en l'état et hydrogénées (palme, coiza), eau, émulsifiants : E471), correcteurs d'acidité : E330, colorant : E160, arôme : diacétyle), sel, poudre levante (amidon de froment, diphosphate disodique E450i, carbonate acide de sodium E500ii),   GARNITURE 58% : eau, poudre à crème pâtissière (sucre, amidon modifié de pomme de terre, lactose et protéines laitières, lait écrémé, matière grasse végétale (coprah), dextrose, gélifiant: alginate de sodium E401), arôme, colorants: E160a), pâte de cacao (eau, cacao en poudre 25%, sucre) 15,8%,   FINITION 12%: glaçage (sucre, sirop de glucose, eau, matière grasse végétale hydrogénée, chocolat (4%), émulsifiants (lécithine de soja E322, mono et diglycérides d'acides gras E471), alcool, arômes naturels de cacao et de vanille, gélifiants (agar-agar E406)),

Présence de céréales contenant du gluten, de produits à base d'oeufs, de produits à base de soja, de produits à base de lait,

Specimen Label

Case: 34523
Asc: 743463675

1 of 2

Event Registration Label

SATO
DCS & Labelling Worldwide

Event Attendee

Jane Austin

AUTOZ

Product Specialist

Organized by SATO Corporation

![SATO DCS & Labelling Worldwide]

Retail Price Markdown Label

TISSUE WHITE

$4.00   UNIT PRICE

$4.00 per pack

536-313 |||| barcode ||||

2 343212 784329

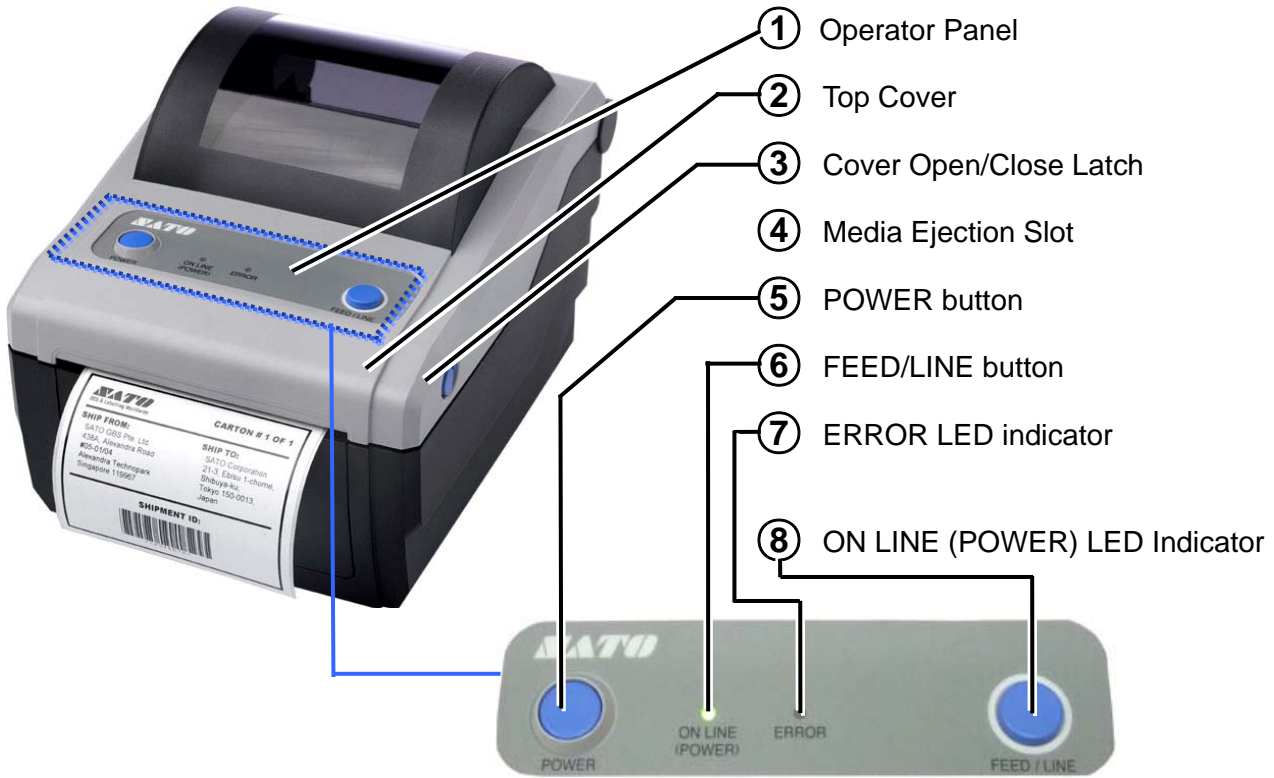---

CLEARANCE

WAS $4.00

SAVE $2.00

NOW **$2.00**

THRU SEP 28, 2009 $4.00 per pack

SATO
DCS & Labelling Worldwide

PRODUCT TOUR
Printer Exterior Front

①	Operator Panel
②	Top Cover
③	Cover Open/Close Latch
④	Media Ejection Slot
⑤	POWER button
⑥	FEED/LINE button
⑦	ERROR LED indicator
⑧	ON LINE (POWER) LED Indicator

Printer Exterior Back
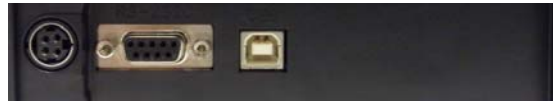
3 standard connectivity options

USB and RS232C interface on-board

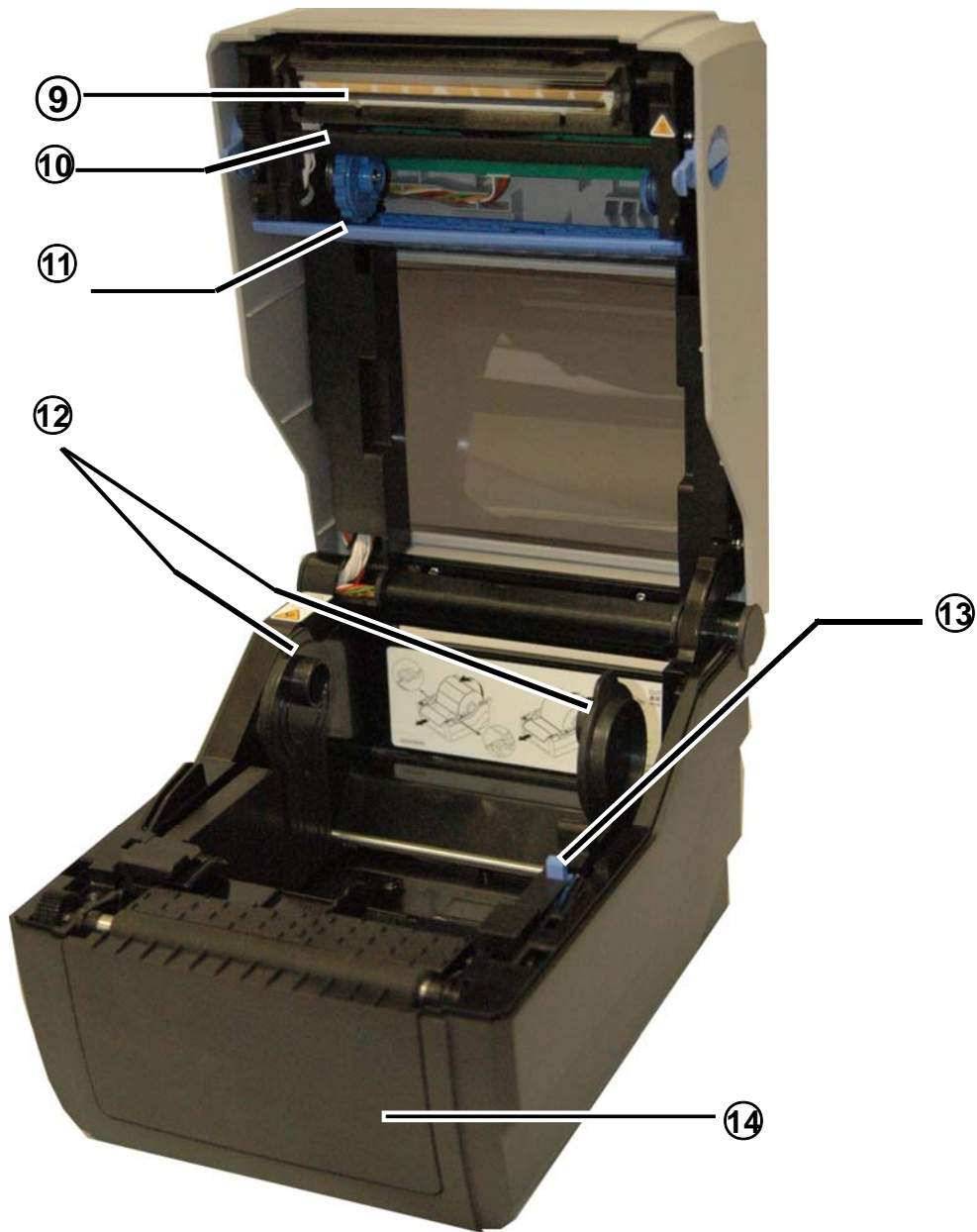USB and LAN interface on-board
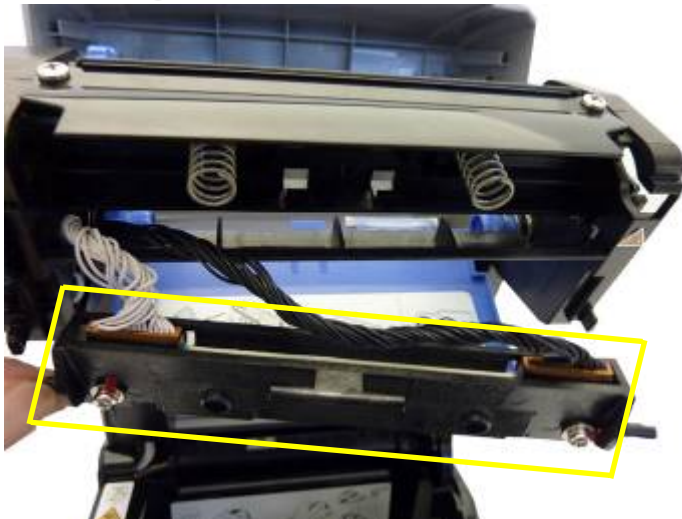
USB and IEEE interface on-board

9: Print head
10: Ribbon Unit
11: Pull Out Lever
12: Roll Media Holder
13: Media guide and I-Mark/ Gap sensor
14: Optional Device Compartment

Print head: available in 203 and 305dpi print resolutions.
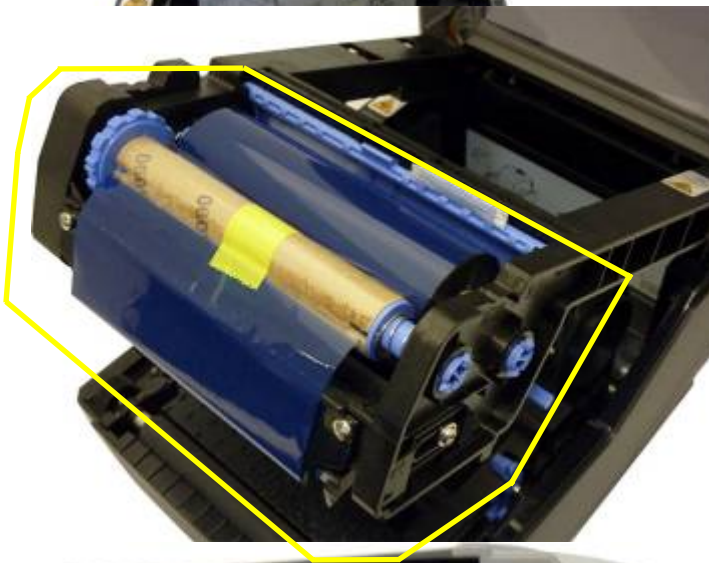
Ribbon Unit is for the TT model.
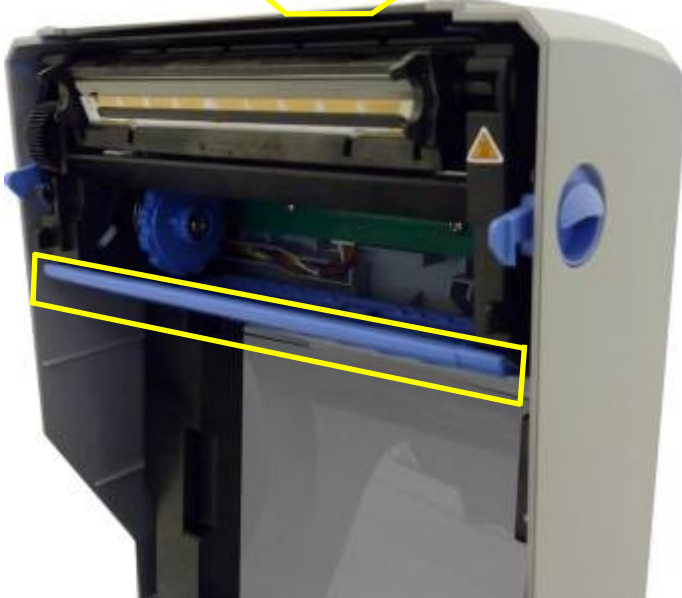
The Pull Out Lever: used to pull out the ribbon unit from the top cover for ribbon loading.

![SATO DCS & Labelling Worldwide logo]
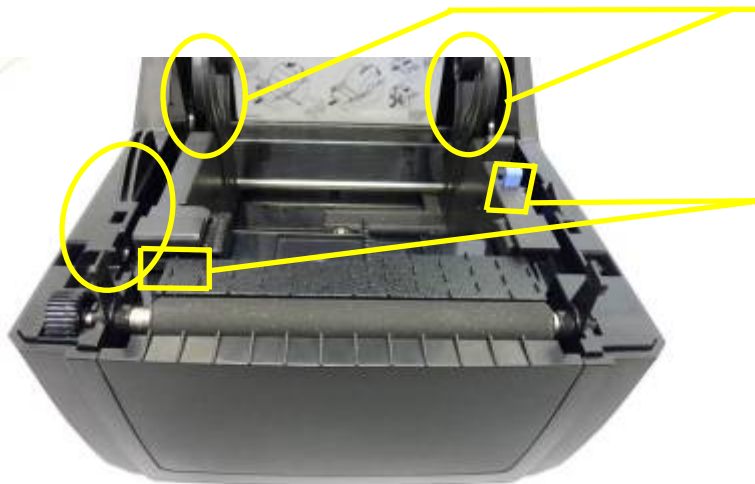
The **Roll Media Holder is used to** hold the media roll, usually labels.

Media guide and I-Mark/ Gap sensor

.
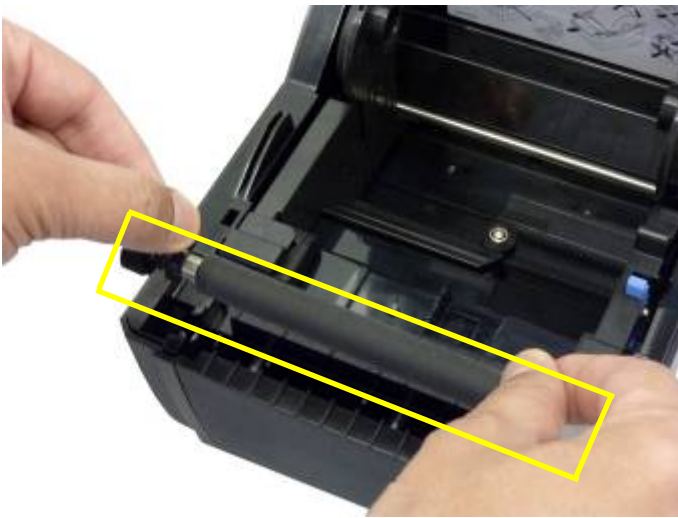
The **Platen Roller is used to** hold the media roll, usually labels. .

The **Optional Device Compartment** is designed for installation of optional accessories such as the cutter or dispenser unit.

PRODUCT FEATURES, FUNCTIONS & BENEFITS

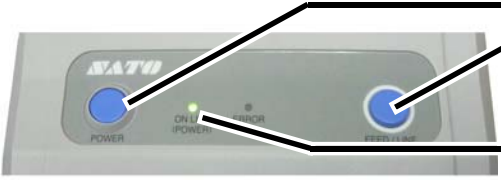| FEATURES	FUNCTIONS	BENEFITS
Operation Panel	2 control buttons (POWER button and FEED/LINE button), and 1 LED status light.	Large, simple-to-operate control buttons for easy printer configuration and device status indications for easy monitoring. Response on ERROR indicator in conjunction with the ON LINE (POWER) indicator can be used visually to guide switching to various printer modes.
	Press POWER button to power on or off.	
	FEED/LINE button: press this button to select printer status (online or offline) or to feed paper.	
	ON LINE (POWER) LED status light: green LED light illuminates when the printer is online, i.e. ready to print. Green light blinks when printer is offline. Red indicates error.	
	The ERROR LED lights or blinks red when an error is detected in the printer.	

Clamshell Design	The clamshell design allows the top cover to be raised open upwards. The cover stays open resting on the safety latch. The safety latch locks the printer top cover open when top cover is raised more than 45^0 upwards.	The clamshell design offers operator easy access to all controls, providing faster ribbon replacements and easier paper loading to the media area inside of the printer. The safety latch prevents top cover from accidentally closing and injuring the operator's hand

Paper or Label Holder	Allows loading of paper, including adjusting of width of paper holder to match paper size. For more detailed instructions on loading labels, refer to the Quick Guide or Operator's Manual.	The clamshell design makes it easy to load labels by simply "dropping in" labels. Label changes can be thus be done in no time. Coloured and clearly marked components guide the user on how to load media.
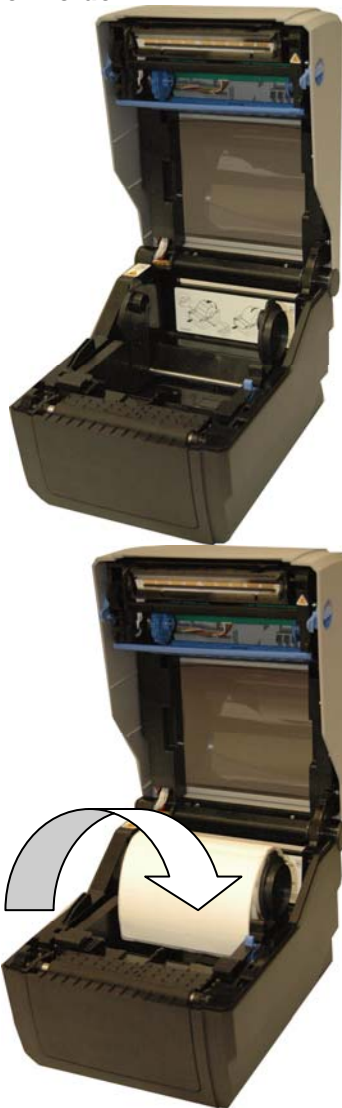
Ribbon Unit
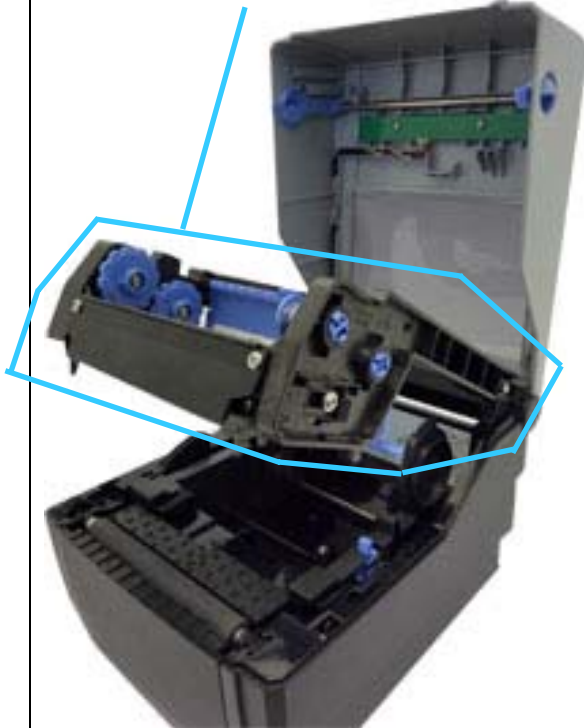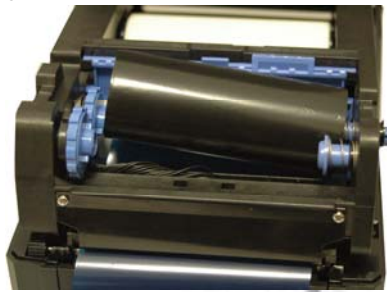
The ribbon unit serves to load the ribbon and wind up the used ribbon.

Pull the lever on the middle of the ribbon unit toward you to pull out the ribbon unit.

For more detailed instructions on loading ribbons, refer to the Quick Guide or Operator's Manual.

The placement of the ribbon under the cover does not interfere with the printer controls. It gives the operator wider access to the inside of the printer.

Printhead Mechanism	Printhead configuration of print resolution: 203 dots per inch (or 8 dots per millimetres) for CG408 model and 305 dots per inch (or 12 dots per millimetres) for CG412.	The one-touch, tool-less print head release mechanism enables the operator to quickly and easily replace the print head.
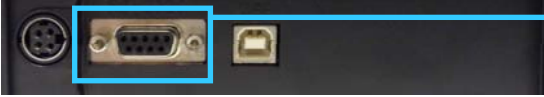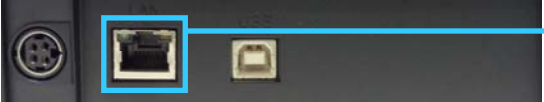
Print roll paper and fan-folded paper option	Fanfold media feeds through back of printer. Pass the paper through the opened window at the rear of the unit.	The CG4 is designed to easily accept fanfold media, which effectively extends the media capacity of the printer.

Processor 32-Bit RISC	Determines processing time; and throughput speed.	Fast data processing for desktop printer, and virtually instantaneous throughput.

Memory Flash Memory (4MB)	A type of Random Access Memory chip that does not lose its contents when power it is receiving is turned off; it, therefore, allows permanent storage.	The 4MB of Flash Memory allows additional font and graphics capability and firmware upgrades without the need for modifications to the printer or electronics.

Communication Interfaces *The CG4 is available in the following 3 configurations*		
USB and RS232C interface on-board	To connect printer to the host computer using the USB interface.	The built-in interfaces of LAN or serial or parallel or USB as standard makes it easy to switch between applications.
USB and LAN interface on-board	To connect printer using LAN interface and establish direct communication with host computer system on Local Area Network	
USB and IEEE interface on-board	To connect printer to the host computer using IEEE interface interface. Or, to connect the SATO Keypad, Scanner or Smart keyboard to the printer.	
	To connect printer to the host computer using the USB interface.	

Media Guide and Sensing		
▪ Media guide ▪ I-Mark/ Gap sensor	The media guide allows the media to feed properly. Media sensors detect the I-Mark (or black mark) on the media, or gap of the label in order to precisely position the print data on the media. The CG4 printer is equipped with a gap or transmissive sensor, an I-Mark or reflective sensor, and a reflective ribbon out sensor.	Support for a greater range of media types.

COMPETITIVE ANALYSIS

Manufacturer	SATO		Datamax			CG4 Strengths
Hardware Specifications						
Model	**CG408**	**CG412**	**E-4203**	**E-4204**	**E-4304**	• Larger memory storage space • Compact Size • Lighter, More portable • Standard quick print speed of 4dpi for all models • Option of linerless labels • Multiple Interface • Easy media loading • Comes with user-friendly keypad for ease of data input • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	(USD 585)			
Resolution	203dpi	305dpi	203 dpi	203 dpi	300 dpi	
Max Print Speed	4 ips		3 ips	4 ips	4 ips	
Print Method	Direct thermal, thermal transfer		Direct thermal, optional thermal transfer			
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.3" (109.2 mm) to 24" (609.6 mm)			
Memory	8 MB SDRAM; 4 MB Flash		2 MB DRAM; 1 MB Flash; (optional 4MB flash)			
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		7.05" (H) x 8.77" (W) x 10" (D)			
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		5.2 lbs (2.4 kg)			
Media Specifications						
Media Width	0.98" (25mm) to 4.33"(110mm)		1" (25.4 mm) to 4.3" (109.2 mm)			
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)		N.A.			
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		0.375" (9.5mm) to 24" (609.6 mm)			
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)		N.A.			
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.0025" (0.635 mm) to 0.0100" (0.254 mm)			
Max. Label Roll Outer Diameter	5.04" (128mm)		N.A.			
Inner Core Diameter	1.57" (40mm)		N.A.			
Max. Ribbon Outer Diameter	N.A.		N.A.			
Interface						
	■ USB ■ RS232/ LAN/ IEEE1284		■ USB ■ Centronics® Parallel port ■ RS232 at 600 to 38,400 BPS			
Options						
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Light duty cutter ■ Label present sensor ■ External media supply stand ■ ILPC plug-in modules ■ Standard cutter ■ Resident scalable fonts ■ DMX100 ethernet print server ■ Adjustable media sensor			

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Manufacturer	SATO		Godex		CG4 is better
Hardware Specifications					
Model	**CG408**	**CG412**	**EZ1100 Plus**		• Higher print resolution • Compact Size • 1kg lighter, More portable • Larger label roll outer diameter – print more labels • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	N.A.		
Resolution	203dpi	305dpi	203dpi		
Max Print Speed	4 ips		4 ips		
Print Method	Direct thermal, thermal transfer		Direct thermal, thermal transfer		
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.25" (108 mm) to ~		
Memory	8 MB SDRAM; 4 MB Flash		8 MB SDRAM; 4 MB Flash		
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6.8" (H) x 8.9" (W) x 11.2" (D)		
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		2.2 lbs (2.72 kg)		
Media Specifications					
Media Width	0.98" (25mm) to 4.33"(110mm)		1" (25 mm) to 4.64" (118 mm)		
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)				
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		N.A.		
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)				
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.003" (0.06 mm) to 0.01" (0.25mm)		
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127 mm)		
Inner Core Diameter	1.57" (40mm)		1" (25.4mm), 1.5" (38.1mm), 3" (76.2mm)		
Max. Ribbon Outer Diameter	N.A.		2.67" (68 mm)		
Interface					
	■ USB ■ RS232/ LAN/ IEEE1284		■ USB port ■ RS232 ■ Parallel port: Centronics® port 36-pin		
Options					
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Rotary cutter ■ Label stripper ■ External label rewinder ■ Compact flash (CF) card socket with RTC ■ Internal Ethernet adapter card		

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Manufacturer	SATO		Godex		CG4 is better
Hardware Specifications					
Model	**CG408**	**CG412**	**EZ1200 Plus**	**EZ1300 Plus**	
					• Higher print resolution • Standard quick print speed of 4dpi for all models • Larger label roll outer diameter – print more labels • Compact Size • 1kg lighter, More portable • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	N.A.		
Resolution	203dpi	305dpi	203dpi	300 dpi	
Max Print Speed	4 ips		2 ips – 6 ips	2 ips – 4 ips	
Print Method	Direct thermal, thermal transfer		Direct thermal, thermal transfer		
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.25" (108mm) to ~	4.16" (105.7mm) to ~	
Memory	8 MB SDRAM; 4 MB Flash		8 MB SDRAM; 4 MB Flash		
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6.8" (H) x 8.9" (W) x 11.2" (D)		
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		6lbs (2.72 kg)		
Media Specifications					
Media Width	0.98" (25mm) to 4.33"(110mm)		1" (25 mm) to 4.64" (118mm)		
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)				
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		N.A.		
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)				
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.0025" (0.06 mm) to 0.0098" (0.25mm)		
Max. Label Roll Outer Diameter	5.04" (128mm)		4.92" (125 mm)		
Inner Core Diameter	1.57" (40mm)		1" (25.4mm), 1.5" (38.1mm), 3" (76.2mm)		
Max. Ribbon Outer Diameter	N.A.		2.67" (68 mm)		
Interface					
	■ USB ■ RS232/ LAN/ IEEE1284		■ USB port ■ RS232 (Baud rate: 4800 – 115200, DSR/DTR) ■ Parallel port: Bi-direction		
Options					
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Rotary cutter module ■ Stripper module ■ Compact flash (CF) card socket with real time clock (RTC) ■ Internal Ethernet adapter card		

Manufacturer	SATO		Zebra			CG4 is better
Hardware Specifications						
Model	**CG408**	**CG412**	**GX420d/ GX420t/ GX430t**			• Larger label roll outer diameter – print more labels • Lower priced • Option of linerless labels • Multiple Interface • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	DT: (USD 695)	TT: (USD 795)	TT: (USD 950)	
Resolution	203 dpi	305 dpi	203 dpi	203 dpi	300 dpi	
Max Print Speed	4 ips		6 ips	6 ips	4 ips	
Print Method	Direct thermal, thermal transfer		DT	DT/ TT	DT/ TT	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.09" (104 mm) to ~			
Memory	8 MB SDRAM; 4 MB Flash		8 MB SDRAM; 4 MB Flash			
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		DT: 6" (H) x 6.75" (W) x 8.25" (D) TT: 7.5" (H) x 7.6" (W) x 10" (D)			
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		DT: 3 lbs (1.4kg) TT: 4.6 lbs (2.1 kg)			
Media Specifications						
Media Width	0.98" (25mm) to 4.33"(110mm)		0.75" (19mm) to 4.25" (108 mm)			
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)					
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)					
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)					
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.003" (0.08 mm) to 0.0075" (0.19 mm)			
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127 mm)			
Inner Core Diameter	1.57" (40mm)		0.5" (12.7 mm)			
Max. Ribbon Outer Diameter	N.A.		1.36" (35 mm)			
Interface						
	■ USB ■ RS232/ LAN/ IEEE1284		■ USB ■ RS-232 (DB9) ■ Parallel (DB-25) ■ ZebraNet 10/100 PrintServer (optional), replaces parallel ■ 802.11b/g wireless or Bluetooth wireless			
Options						
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Cutter + RTC ■ Dispenser ■ Wireless option includes LCD for visual comm ■ Adjustable media sensor ■ KDU Plus & KDU keyboard display units for standalone printing ■ Asian and International Font Packs			

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Manufacturer	SATO		Zebra	
Hardware Specifications				
Model	**CG408**	**CG412**	**GK420d**	**CG4 is better**
				• Higher print resolution • Larger label roll outer diameter – print more labels • Compact Size & Portable • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595); TT: (USD 695)	DT: (USD 750); TT: (USD 850)	(USD 695)	
Resolution	203dpi	305dpi	203 dpi	
Max Print Speed	4 ips		5 ips	
Print Method	Direct thermal, thermal transfer		Direct thermal	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.09" (104 mm) to 39" (991 mm)	
Memory	8 MB SDRAM; 4 MB Flash		8MB SDRAM; 4 MB Flash	
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6." (H) x 6.75" (W) x 8.25" (D)	
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		3.1 lbs (1.4 kg)	
Media Specifications				
Media Width	0.98" (25mm) to 4.33"(110mm)		0.75" (19 mm) to 4.25"(108 mm)	
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)			
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		0.38" (9.7 mm) to 39" (991 mm)	
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)			
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.003" (0.08 mm) to 0.0075" (0.20 mm)	
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127 mm)	
Inner Core Diameter	1.57" (40mm)		0.5" (12.7 mm), 1.0" (25.4 mm), 1.5" (37.1 mm)	
Max. Ribbon Outer Diameter	N.A.		N.A.	
Interface				
	■ USB ■ RS232/ LAN/ IEEE1284		■ Serial RS-232 (DB-9) ■ USB V1.1 ■ Internal ZebraNet 10/100 Print Server	
Options				
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ ZebraNet 10/100 Print Server for Ethernet connectivity ■ Label present sensor ■ 802.11b/g / Bluetooth wireless ■ KDU Plus™ and KDU™ keyboard display units for stand-alone printing solution ■ Asian font sets	

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Manufacturer	SATO		Zebra	
Hardware Specifications				**CG4 is better**
Model	**CG408**	**CG412**	**LP 2844**	
				• Larger memory storage space • Larger print area • Higher print resolution • Larger label roll outer diameter – print more labels • Compact Size • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	(USD 575)	
Resolution	203dpi	305dpi	203 dpi	
Max Print Speed	4 ips		4 ips	
Print Method	Direct thermal, thermal transfer		Direct thermal	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.09" (104 mm) to ~	
Memory	8 MB SDRAM; 4 MB Flash		256 KB SRAM; 512 KB Flash, optional: 512 KB SRAM; 1 MB Flash	
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6.6" (H) x 7.6" (W) x 8.2" (D)	
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		3.2 lbs (1.5 kg)	
Media Specifications				
Media Width	0.98" (25mm) to 4.33"(110mm)		1" (25.4mm) to 4.25" (108mm)	
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)			
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		N.A.	
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)			
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		N.A.	
Max. Label Roll Outer Diameter	5.04" (128mm)		N.A.	
Inner Core Diameter	1.57" (40mm)		N.A.	
Max. Ribbon Outer Diameter	N.A.		N.A.	
Interface				
	■ USB ■ RS232/ LAN/ IEEE1284		■ USB ■ RS-232 (DB9) ■ Parallel (Centronics) ■ ZebraNet PrintServer II, Ethernet connectivity	
Options				
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Cutter ■ Asian and International Font Packs ■ Internal ZebraNet PrintServer II for Ethernet connectivity ■ Dispenser with label taken sensor	

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Manufacturer	SATO		Zebra	CG4 is better
Hardware Specifications				
Model	**CG408**	**CG412**	**TLP 3842**	- Larger memory storage space - Higher print speed - Higher print resolution - Larger label roll outer diameter – print more labels - Longer media length - Competitively priced - Compact size - Option of linerless labels - Multiple Interface - Comes with user-friendly keypad for ease of data input - Easy media loading - Anti-microbial casing that comply with industrial standards - Safety top cover latch - Distinctive chassis colour more resistant to dirt & dust - Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	(USD 845)	
Resolution	203 dpi	305 dpi	300 dpi	
Max Print Speed	4 ips		2 ips	
Print Method	Direct thermal, thermal transfer		Thermal transfer	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.09" (104 mm) to ~	
Memory	8 MB SDRAM; 4 MB Flash		512 KB SRAM; 1 MB Flash	
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6.8" (H) x 7.9" (W) x 9.75" (D)	
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		3.2 lbs (1.5 kg)	
Media Specifications				
Media Width	0.98" (25mm) to 4.33"(110mm)		1" (25.4mm) to 4.25" (108 mm)	
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)			
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		11" (279 mm) Max	
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)			
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.003" (0.08 mm) to 0.007" (0.18 mm)	
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127 mm)	
Inner Core Diameter	1.57" (40mm)		1.0" (25.4 mm) and 1.5" (38 mm)	
Max. Ribbon Outer Diameter	N.A.		1.34" (34 mm)	
Interface				
	■ USB ■ RS232/ LAN/ IEEE1284		■ USB ■ RS-232 (DB9) ■ Parallel (Centronics)	
Options				
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Cutter ■ Internet ZebraNet PrintServer II for Ethernet connectivity ■ Dispenser with label taken sensor ■ Asian Font Set	

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Manufacturer	SATO		Zebra	
Hardware Specifications				**CG4 is better**
Model	**CG408**	**CG412**	**TLP 3844 Z**	
				• Higher print resolution • Compact size • Larger label roll outer diameter – print more labels • Lower priced • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	(USD 895)	
Resolution	203 dpi	305 dpi	300 dpi	
Max Print Speed	4 ips		4 ips	
Print Method	Direct thermal, thermal transfer		Thermal transfer	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.09" (104 mm) to ~	
Memory	8 MB SDRAM; 4 MB Flash		8 MB SDRAM; 4 MB Flash	
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6.8" (H) x 7.8" (W) x 9.4" (D)	
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		3.7 lbs (1.7 kg)	
Media Specifications				
Media Width	0.98" (25mm) to 4.33"(110mm)		1" (25.4mm) to 4.25" (108 mm)	
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)			
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)			
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)			
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.003" (0.08 mm) to 0.007" (0.18 mm)	
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127 mm)	
Inner Core Diameter	1.57" (40mm)		1.0" (25.4 mm) and 1.5" (38 mm)	
Max. Ribbon Outer Diameter	N.A.		1.36" (33 mm)	
Interface				
	■ USB ■ RS232/ LAN/ IEEE1284		■ USB ■ RS-232 (DB9) ■ Parallel (Centronics) ■ ZebraNet PrintServer II for Ethernet connectivity (internal or external)	
Options				
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Cutter ■ Asian and International Font Packs ■ Internal ZebraNet PrintServer II for Ethernet connectivity ■ Dispenser with label taken sensor	
Manufacturer	**SATO**		**Intermec**	

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Hardware Specifications				CG4 is better
Model	**CG408**	**CG412**	**PC4 Series**	
				• Higher print resolution • Larger memory storage space • 0.6kg lighter, More portable • Compact size • Larger label roll outer diameter – print more labels • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	(USD 545)	
Resolution	203 dpi	305 dpi	203 dpi	
Max Print Speed	4 ips		4 ips	
Print Method	Direct thermal, thermal transfer		Direct thermal/thermal transfer	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.65" (118 mm) to ~	
Memory	8 MB SDRAM; 4 MB Flash		Standard: 1 MB Flash, 2 MB DRAM	
			Options: 1 MB Flash	
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6.58" (H) x 9.06" (W) x 10.11" (D)	
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		5.07 lbs (2.3 kg)	
Media Specifications				
Media Width	0.98" (25mm) to 4.33"(110mm)		1" (25.4 mm) to 4.65" (118 mm)	
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)			
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		N.A.	
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)			
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		N.A.	
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127 mm)	
Inner Core Diameter	1.57" (40mm)		1" (25.4 mm)	
Max. Ribbon Outer Diameter	N.A.		1.6" (41 mm)	
Interface				
	■ USB ■ RS232/ LAN/ IEEE1284		■ RS-232C ■ USB V.1.1 ■ Centronics	
Options				
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Flash memory cartridge ■ Serial communication cable ■ RS232C scanner cable ■ Asian fonts cartridges ■ Cutter unit ■ Keyboard display unit ■ External Ethernet adapter ■ 300 dpi ■ Mobile battery unit	

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Manufacturer	SATO		Intermec		
Hardware Specifications					
Model	**CG408**	**CG412**	**PF8d**	**PF8t**	
					• Higher print resolution • Higher print speed • Compact size • 0.6kg lighter, More portable • Larger label roll outer diameter – print more labels • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	N.A.	N.A.	
Resolution	203 dpi	305 dpi	203 dpi	203 dpi	
Max Print Speed	4 ips		4 ips	2 ips	
Print Method	Direct thermal, thermal transfer		Direct thermal	Thermal transfer	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.65" (118mm to ~)	4.65" (118mm to ~)	
Memory	8 MB SDRAM; 4 MB Flash		8 MB SDRAM; 4 MB Flash		
			Optional: 1 GB compact flash (PF8t)		
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		4.56" (H) x 6.61" (W) x 8.58" (D)	6.77" (H) x 8.9"" (W) x 11.2" (D)	
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		4.41 lbs (2.0 kg)	5.07 lbs (2.5 kg)	
Media Specifications					
Media Width	0.98" (25mm) to 4.33"(110mm)		4.65" (118 mm) Max		
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)				
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		N.A.	N.A.	
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)				
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		N.A.		
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127mm)		
Inner Core Diameter	1.57" (40mm)		1" (25.4mm) to 1.5" (38.1 mm)		
Max. Ribbon Outer Diameter	N.A.		N.A.		
Interface					
	■ USB ■ RS232/ LAN/ IEEE1284		■ RS232C ■ USB v2.0 ■ Centronics /parallel		
Options					
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Serial communication cable ■ RS232 scanner cable ■ RTC ■ Self-strip with label-taken sensor ■ Cutter unit ■ Easy LAN 100e ■ External Ethernet adapter ■ 1 GB compact flash ■ 300 dpi optional		

Manufacturer	SATO		TSC	CG4 is better
Hardware Specifications				
Model	**CG408**	**CG412**	**TDP-245 Plus**	• Higher print resolution • Smaller, More compact size • Larger label roll outer diameter – print more labels • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	N.A.	
Resolution	203 dpi	305 dpi	203 dpi	
Max Print Speed	4 ips		2, 3, 4, 5 ips	
Print Method	Direct thermal, thermal transfer		Direct thermal, thermal transfer	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.25" (108 mm) to 90" (2286 mm)	
Memory	8 MB SDRAM; 4 MB Flash		8 MB SDRAM; 4 MB Flash	
			(Optional SD card slot for memory expansion)	
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		7.4" (H) x 8.39" (W) x 12.36" (D)	
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		N.A.	
Media Specifications				
Media Width	0.98" (25mm) to 4.33"(110mm)		0.78" – 4.4" (20 – 112 mm)	
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)			
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		N.A.	
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)			
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.002" (0.06 mm) to 0.007" (0.19 mm)	
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127 mm)	
Inner Core Diameter	1.57" (40mm)		N.A.	
Max. Ribbon Outer Diameter	N.A.		N.A.	
Interface				
	■ USB ■ RS232/ LAN/ IEEE1284		■ RS-232 ■ Centronics ■ USB 2.0	
Options				
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Main board integrated with internal Ethernet ■ Keyboard display unit (KU-007plus & KP-200) ■ RTC ■ External Ethernet print server module ■ External wireless (802.11b/g) print server ■ External roll mount, media OD, 214 mm (8.4") with 1" or 3" core. ■ 3" core label spindle ■ Contact CCD bar code scanner ■ Long range linear image laser barcode scanner	

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Manufacturer	SATO		TSC				CG4 is better
Hardware Specifications							
Model	**CG408**	**CG412**	**TTP-245C**	**TTP-343C**	**TTP-244CE**		• Higher print resolution
							• Smaller, More compact size
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	N.A.				• Larger label roll outer diameter – print more labels
Resolution	203 dpi	305 dpi	203 dpi	300 dpi	203 dpi		• Option of linerless labels
Max Print Speed	4 ips		Up to 6 ips	Up to 4 ips	Up to 4 ips		• Multiple Interface
Print Method	Direct thermal, thermal transfer		Thermal transfer/direct thermal				• Comes with user-friendly keypad for ease of data input
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.25" (108 mm) to 90" (2,286 mm)	4.17" (106 mm) to 40" (1,016 mm)	4.25" (108 mm) to 90" (2,286 mm)		• Easy media loading
Memory	8 MB SDRAM; 4 MB Flash		8 MB SDRAM; 2 MB Flash (optional SD card slot for memory expansion)		8 MB SDRAM; 2 MB Flash		• Anti-microbial casing that comply with industrial standards
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6.81" (H) x 7.95" (W) x 10.16" (D)				• Safety top cover latch
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		N.A.				• Distinctive chassis colour more resistant to dirt & dust
Media Specifications							
Media Width	0.98" (25mm) to 4.33"(110mm)		1.0" – 4.4" (25.4 – 112 mm)				• Strong & indestructible chassis built with ABS (reinforced fibreglass) material
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)						
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		N.A.				
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)						
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		0.002" (0.06 mm) to 0.007" (0.19 mm)				
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127 mm)				
Inner Core Diameter	1.57" (40mm)		1" (25.4 mm) & 1.5" (38.1 mm)				
Max. Ribbon Outer Diameter	N.A.		0.5" (12.7 mm)				
Interface							
	■ USB ■ RS232/ LAN/ IEEE1284		■ RS-232C ■ Centronics ■ USB 2.0 ■ Internal ethernet		■ USB 2.0		
Options							
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Guillotine cutter ■ Peel off module assembly ■ RTC ■ Linerless kit ■ Keyboard display unit ■ Contact CCD bar code scanner ■ Long-range linear image barcode scanner ■ External wireless (802.11b) print server ■ External media hanger with 3" OD label spindle		■ External media hanger with 3" OD label spindle		

Manufacturer	SATO		Toshiba Tec	**CG4 is better**
Hardware Specifications				
Model	**CG408**	**CG412**	**B-SV4D**	• Higher print resolution • Lighter, More compact size • Direct thermal & thermal transfer option both available • Longer label roll outer diameter – print more labels • Option of linerless labels • Multiple Interface • Comes with user-friendly keypad for ease of data input • Easy media loading • Anti-microbial casing that comply with industrial standards • Safety top cover latch • Distinctive chassis colour more resistant to dirt & dust • Strong & indestructible chassis built with ABS (reinforced fibreglass) material
List Price (Base Model)	DT: (USD 595) TT: (USD 695)	DT: (USD 750) TT: (USD 850)	N.A.	
Resolution	203 dpi	305 dpi	203 dpi	
Max Print Speed	4 ips		Up to 5 ips	
Print Method	Direct thermal, thermal transfer		Direct thermal	
Max Print Area	4.09" (104 mm) to 11.81" (300 mm)		4.25" (108 mm) to 24" (609.6 mm)	
Memory	8 MB SDRAM; 4 MB Flash		N.A.	
Dimensions	6.81" (H) x 7.05" (W) x 9.37" (D)		6.65" (H) x 7.87" (W) x 9.13" (D)	
Weight	DT: 3.5lbs (1.7kg), TT: 4.2lbs (1.9kg)		4.5lbs (2 kg)	
Media Specifications				
Media Width	0.98" (25mm) to 4.33"(110mm)		N.A.	
	(Without backing paper) 0.87" (22 mm) to 4.21" (107 mm)			
Media Length (Tear Off)	0.87" (25mm) to 11.93" (303mm)		N.A.	
	(Without backing paper) 0.87" (22 mm) to 11.81" (300 mm)			
Media Thickness	0.002" (0.06 mm) to 0.007" (0.19 mm)		N.A.	
Max. Label Roll Outer Diameter	5.04" (128mm)		5" (127mm)	
Inner Core Diameter	1.57" (40mm)		N.A.	
Max. Ribbon Outer Diameter	N.A.		N.A.	
Interface				
	■ USB ■ RS232/ LAN/ IEEE1284		■ Serial port ■ Parallel port ■ USB ■ LAN	
Options				
	■ Cutter ■ Dispenser + Label present sensor ■ External media supply stand ■ RTC ■ Linerless Kit (Without Cutter) ■ Resident scalable fonts ■ Keypad ■ SATO Label Gallery™		■ Keyboard ■ Extra cutter module for thick paper and partial cutting ■ Expansion flash memory module ■ Strip sensor mode ■ Linerless kit ■ LAN adapter	

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FREQUENTLY ASKED QUESTIONS
last updated on January 31, 2010

1. What are the interfaces available on the new CG4?
The New CG4 printer comes with 2 standard built-in interface combinations.
- USB + RS232C
- USB + Parallel
- USB + LAN

2. Which of the 2 built-in interfaces is set as default on the CG4 printer?
USB is set as the default interface at the factory. To switch from USB to RS232C, LAN or Parallel, please refer to the procedure described in the CG4 Quick Guide or Operator Manual

3. Is there any utility available to configure the internal LAN interface on the new CG4?
The internal built-in LAN interface on the new CG4 (USB + LAN) can be configured using the SATO All-In-One Tool or via Web browser.

4. The CG4 printer does not have any dip-switches. What is the method to change the printer settings?
The printer settings can be changed by using the SATO All-In-One Tool or by using printer commands.

5. What is the memory of the new CG4?
The new CG4 comes with 4MB Flash ROM and 8MB SDRAM.

6. What are the Asian Codepages available on the CG4?
To date, there are 3 Asian Codepages available for the CG4 printer:
- Chinese GB 2312 (24 x 24)
- Korean (Gothic - KSX1001 16×16dot, Mincho - KSX1001 24×24dot)
- Thai

7. Will the CG4 support any emulation?
ZPL, EPL, DPL and TCPL emulations will be supported by the CG4. The target date of availability will be advised.

8. What are the options available on the new CG4?
Cutter, Dispenser, Linerless Kit, RTC and SATO Keypad

9. Can the CG4 print in Standalone mode?
Using the SATO Keypad, the CG4 printer can print in standalone mode. Label formats with variable fields can be stored in the SATO Keypad memory or SD card thus eliminating the need to have a permanent connection to a PC.

Alternatively, Label formats with variable fields can be stored in the printer memory. Using a barcode scanner connected to the printer serial interface, the format number can be selected and the variable data is inputted to the printer for printing.

10. What are the print resolutions available on the CG4?
The CG4 print has 2 printing resolutions – CG408: 203 dpi and CG412: 305 dpi. At a higher resolution of 305dpi, the user can print better graphics or small 2D barcodes.

11. Can we change the print resolution by simply switching the print head just like GL or GT series?

No. It is not possible to change the print resolution by simply switching the print head. Some other parts such as the gear will also have to be changed. However, the same firmware is used for both print resolutions.

12. Are there any Demo applications which can be used when promoting the new CG4 to business partners and customers?

Yes. Demo software applications are available to demonstrate printing of wristbands, Healthcare labels, Asset ID Labels, Price Markdown labels and Ingredient Labels.

13. Is the CG4 chassis anti-microbial?

Yes. The CG4 chassis contains an antibacterial agent which is tested according to JISZ2801: Antimicrobial products Standard.

14. Is there any variation in specifications for CG4 printers shipped to different regions? What is the difference between EX1, EX2, EX4 and EX6 model types?

CG4 printers shipped to different regions (America, Europe and Asia-Pacific) are the same except for the power cord and the safety approvals. The printers can be differentiated as follows:

Model Type	Regions	Details
EX1	Americas	US Power Cord
EX2	Europe and Asia Pacific	2 pins EU Power Cord
EX4	China	• CCC Safety Approval • China Power Cord
EX6	Korea	• MIC Safety Approval • Korea Power Cord

WARRANTY INFORMATION

Please contact your local SATO representative or authorized partner for product warranty terms and condition.

SPARE PARTS INFORMATION

For complete spare parts lists and exploded view drawings, please contact your local SATO representative or authorized partner.

Recommended Spare Parts

GLOSSARY OF TERMS

SATO All-In-One Tool: A SATO-developed printer control and management software application. This tool allows users from their host PC, to configure and control printers remotely.

SATO Keypad: an input device to enable users to enter data (a combination of numeric, alphabetical and some symbols found on a keyboard)

Online Mode: Generally refers to the state when two or more devices are directly connected, in this case the printer to a host PC where it is able to accept 2-way communication.

Standalone Printing: Printing without a PC. It usually requires a printer which can store label designs and handle information added at time of print without using a computer. In the case of the CG4, label designs are stored into the SATO keypad internal memory (or the SD card) and variable data is inputted using the keypad.

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