

## 5V Thermal Printer Modules

# GeBE®

## GPT-621x-83/84

**Especially for Portable Devices or Automotive Applications**  
58 / 80 / 112 mm Paper Width • Text and Graphics  
High Resolution 203 dpi • 5.0-8.5VDC • Battery Operation • Bar  
Code • Charging Circuit • Integrated 8-40V DC/DC Converter  
Complete Printer Systems VARIO, INFO, and MULDE

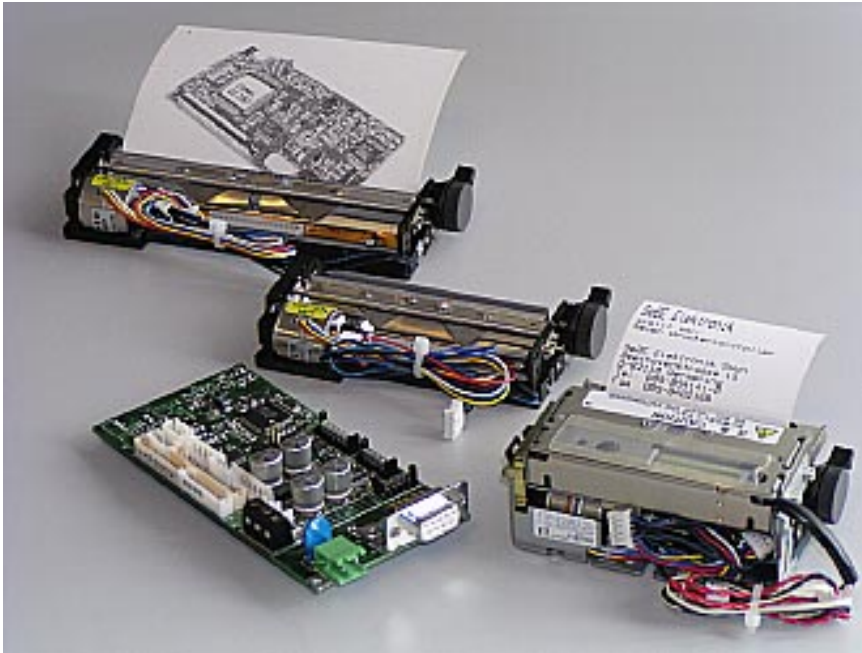
**Elektronik und  
Feinwerktechnik GmbH**

Module und Geräte zum Eingeben,  
Auswerten, Anzeigen und Ausdrucken  
analoger und digitaler Daten.

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GeBE  
Products on  
the INTERNET

You can find the products  
described in this flyer at:

[www.oem-printer.com/  
gct-6283-84](http://www.oem-printer.com/gct-6283-84)

Keyboards for industrial  
applications:  
[www.tastaturen.com](http://www.tastaturen.com)

5V high quality printer mechanism modules for portable devices or automotive applications -- from GeBE

## Short Information

- Compact, high-quality thermal printer mechanisms from Fujitsu
- Efficient printer mechanism controller from GeBE
- For use in handheld computers, terminals, or portable measuring devices
- For protocol, receipt, and ticket printing
- Battery operation with 5 x 1.2V NiMH cells
- Integrated charging circuit
- Sophisticated power management with energy saving power down modes
- DC/DC converter with wide input voltage range of 8-40 VDC allows the use of car batteries
- Printer with 58/60 mm paper width can be equipped with integrated cutter
- Serial and parallel interfaces
- High print speed up to 50 mm/s
- High print quality with 203 dpi
- Text, graphics, and bar code printing
- Printing of text files and logos from the EEPROM
- 4 character sets (IBM-II/850) of different size
- Special character sets and special programming optional
- Generates 4 different bar codes:  
EAN8 / EAN13 / 2 out of 5 interleaved / Code39

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**Description**

**Hardware Adaptability**

The 5V thermal printer modules stand out in specialty applications due to their high integration density, adaptability and flexibility.

The essential variable parameters are:

- **Paper width:** front feed: 58/80/112 mm; back feed (label printing): 60/85/114 mm
- **Serial interfaces:** Multiple data formats up to 115 Kbaud, Xon-Xoff, or hardware handshake, V.24, or TTL level, external, opto-isolated level converter from TTL to RS422/485 and current loop, infrared through positionable IR adapter
- **Parallel interface:** in place of serial interface
- **Operating voltages:** 5.0 - 8.5 VDC through power supply, 5 cells, 1.2V NiMH batteries with charging circuit controlled by the  $\mu$ -processor, 8 - 40V with integrated DC/DC-converter
- **Power saving modes:** Idle mode (automatic), optional sleep mode, hard- and software controlled, with or without initialization after reactivation by a dummy character
- **Control elements:** Located on the controller board for use in INFO printers, or through connectors for external connection: FEED button, statusLED, remaining paper sensor
- **Integrated paper cutter:** For 58/60 mm printer mechanism
- **Paper rewinder control:** Open collector outlet; can also be used for other tasks.



• **VARIO** printer modules for all three paper widths (58/80/112 mm): For installation behind front panels, with paper exchange through a front lid, with paper output under a window, with paper tearing edge; long view port on large front lid with integrated paper rewinder (optional); models in DIN switchboards with or without transparent front lid

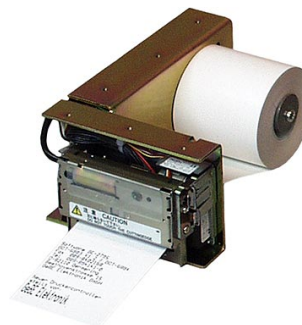
• **Convenient Layout Design Options**

4 **character sets** with 256 characters each (similar to IBM II code table 850) and different sizes to choose from; extensive **layout commands** to create attractive receipts: print black on white, print white on black, print gray, underline, select character size from single to 8-fold, single or double character width, change **character pitch**, set effective print width. The paper can be transported forward and reverse by the line. The printer independently generates four different **bar codes** (EAN8 / EAN13 / Code39 / 2 out of 5 interleaved). Other character sets (e.g Cyrillic) and bar codes on request.

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• **Controlled reliability**

A **synchronizing command** initiates a feedback from the printer to the host, when the print job has been processed up to this position. This function can be used for monitoring the print progress, or to start other processes within a system. The program flow is secured by a **watchdog. Sensors** and **A/D converters** monitor the paper supply, measure the temperature at the head and the battery, and control the operating voltage. A sophisticated **reporting system** provides the amount of printed paper and the number of cuts performed by the cutter for service purposes, if the EEPROM is installed.



• **INFO** robust printer for integration, available for all three paper widths (60/85/114 mm): Small depth for machines with receipt issuing through paper catch or through front slot; installed vertically or horizontally, large paper roll up to 150 mm diameter, very service friendly

• **HOUSING:** Injection molded housing with elegant design for 80 mm printer; for installation in front panels or consoles. For portable devices; simple paper exchange through front lid separated at the paper outlet with easy-to-operate sliding lock.



• **Easy software adaptation**

All commands can be filed in a serial EEPROM (8 - 64 Kbytes). This includes the parameterizing commands that overwrite the power-on initialization before the printer starts printing. The user can write into this EEPROM himself. Text files and logos, e.g. for recognition and advertising purposes that are printed on command can also be filed there.

• **Software customization by GeBE**

Customization of commands or character sets can be performed at the factory.

**Technical data >> INTERNET: [www.oem-printer.com/gct-6283/84](http://www.oem-printer.com/gct-6283/84)**

Paper / eff. print width front feed	57.5±0.5 / 48 mm	79.5±0.5/72 mm	111.5±0.5/104 mm
Paper thickness	50 -- 80 $\mu$ m		
Roll diameter	max. 150 mm		
Resolution	8 dpmm / 203 dpi		
Print speed	up to 50 mm/s		
Serial interfaces	RS232 (V.24), TTL, Infrared, GeBE-SPI		
Data formats	1.200 baud up to 115 Kbaud, GeBE IR-Protocol		
Parallel interface	Centronics		
Characters/line	24(34,42,54)	36(52,64,82)	52(75,92,118)
Print modes	text / data / graphics mode / bar code		
Graphics printing dots/line	384	576	832
Current during standby mode	app. 8 mA		
Power voltages	5.0 -8.5 VDC; 5x1,2V NiMH batteries; 8-40VDC-DC converter		
Power current (peak)	3A to 6A, depending on print speed and blackening		
Adjustable current limitation	0.7 A to 6.4 A, affects the print speed		
Current during sleep mode	usually 20 $\mu$ A		
Operating temperature	0 - 50 °C, 32 - 122 °F		
Printed paper	app. 50 km		

**Nomenclature**

<b>Controller , fully assembled</b>
<b>Catalogue No.:</b> 11677
<b>Nomenclature</b>
GCT-6283-yy-EVAL
yy:= depends on mechanism
<b>Printer Mechanisms</b>
<b>Catalogue No.:</b> 11478
<b>Nomenclature</b>
GPT-6202-Cut (58 mm)
<b>Catalogue No.:</b> 10571
<b>Nomenclature</b>
GPT-6203 (80 mm)
<b>Catalogue No.:</b> 10570
<b>Nomenclature</b>
GPT-6204 (112 mm)