

Complete New Generation Print System
for 58 mm Thermal Paper

GPT-4352

GeBE®

Elektronik und
Feinwerktechnik GmbH

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



- Ideal for battery operation due to integrated energy saving power management, Auto Power-Off and integrated battery charger
- Extremely compact and light for space sensitive applications like handhelds
- Flexible interface: RS232, TTL or infrared, optional Centronics interface available
- Simple paper insert with Easy Loading technology
- Expandable with clock and serial interface

Simplistic handling: paper



Easy Loading



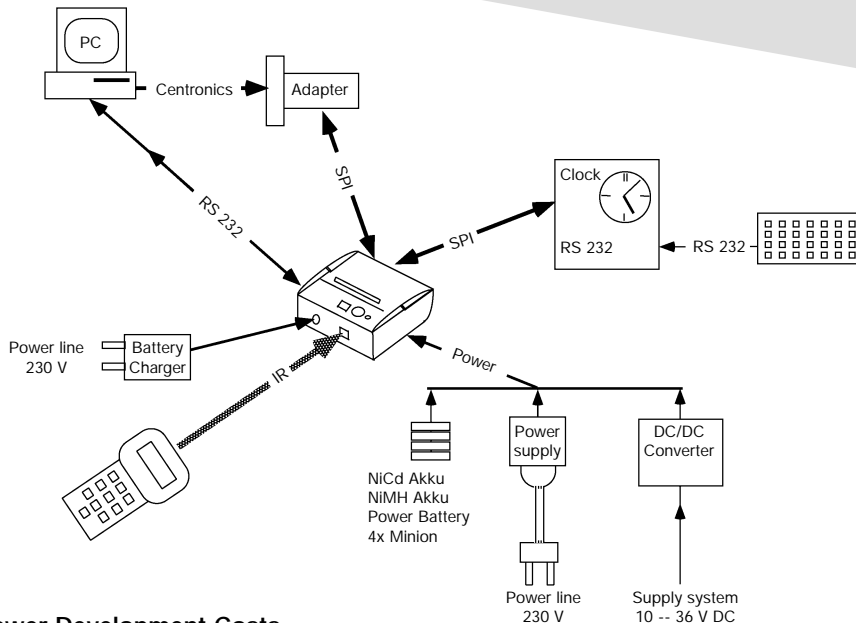
Open lid using lever



Remove remaining paper

Tiresome paper threading is a thing of the past. Easy Loading makes the changing of paper extremely fast.

The patented opening mechanism makes it simple to open the paper holder.



Lower Development Costs

You only need a good value standard housing or a simple custom housing. The printer module with the complete Easy Loading mechanism fits into your housing, saving you costly design work.

The printer is connected through standard interfaces to your system. The printer independently controls the charging process and handles the power management.

Custom CI

Select the housing color and give your product a personal touch. We manufacture foils with company logos for the operating panel, even for smaller lots.

Easy Design



The Perfect

Easy Co



GPT-4312 Panel Kit

Efficient Energy Saving Mode

The GPT-4352 works in an operating voltage range between 3.0 and 7.2 V. Several different battery types can be directly connected. In battery operated systems, the level of the closed-circuit current plays a significant role. Printers often remain in a state of rest, only operating for short periods of time. The GPT-4352 is equipped with Auto Power-Off and Zero-Power mode. The printer turns itself off during inactive phases. There is no need for the user to

constantly switch the printer on and off manually. The printer is activated e.g. by sending dummy characters. For an operation with weaker power supplies, the peak current during printing can be reduced by command, from the usual 3 A in several steps down to about 700 mA. This way, the printer can be adjusted to the capacity of the power supply.

Integrated Battery Management

On request, the GPT-4352 can be supplied with an integrated battery charger for NiMH

exchange made easy

Even unpractised users can easily manage the intuitive paper exchange process.



Insert new paper roll



Push lid closed



Start printing

loading

Easy



ct Package

nnexion

Easy Installation

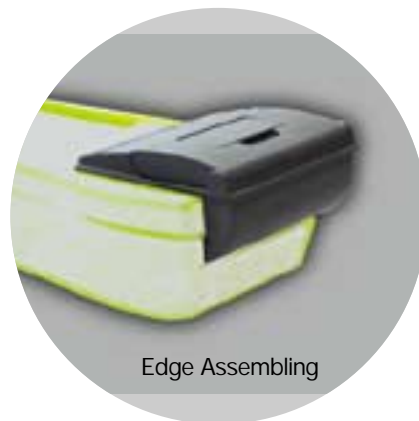


Application examples

Lower Installation Costs

The miniature panel printer GPT-4352 was especially designed for very small applications like handhelds. It is suitable for almost all panel printer applications.

The printer can be easily installed from the outside into a pre-cut-out location and secured with two screws. "Edge assembling" saves some room, having the printer extend beyond the handheld housing, and reducing the required installation volume by up to 50%.



Edge Assembling

Infrared Interface

The printer type GPT-4352-LV-82-IR-EVAL has a bidirectional IR interface in the center of the operating panel, which is an advantage especially for front panel printers or those that attach to the belt.

Suitable Applications

You can get also 19", in a DIN housing as well as printers in a table- or pocket-housing.

(4.8V) batteries. The microprocessor controls the charging process and displays the status through an LED.

Advantage: The printer allows charging during printing, so the charging process will not be aborted prematurely.

Efficient Interfaces

The printer has a standard RS232 that runs with baud rates up to 57,6 kbps. In graphic mode, the printer supports standard compression procedures, reaching high print speeds even with serial

control. On request, we can supply a Centronics adapter for parallel control.

Reliable System Solution

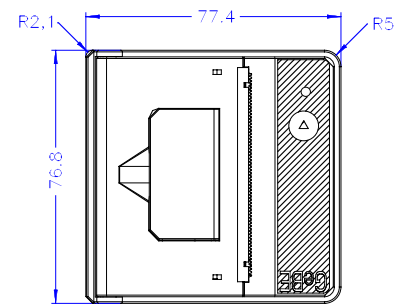
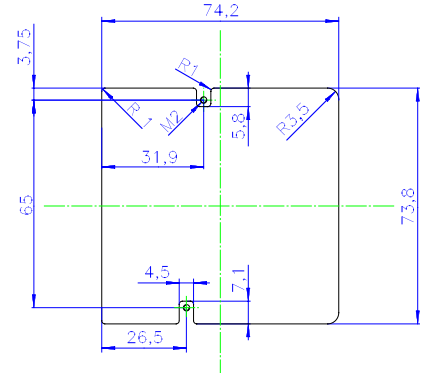
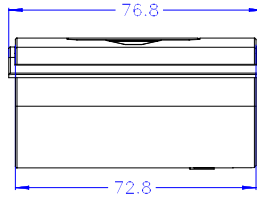
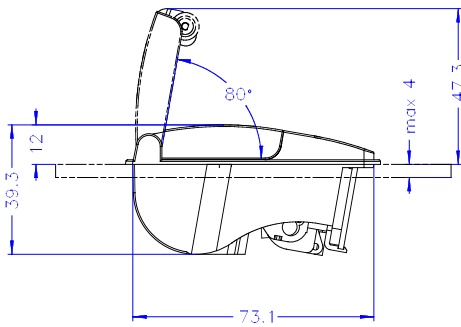
During the development of the printer system in SMD technology, a design complying with the electromagnetic compatibility was very important to us. Operating voltage, print head temperature and critical pulse times of the heating elements are permanently monitored during printing. Failures are automatically reported.

The program flow is monitored by a watchdog.

Convenient Batch File System

The GPT-4352-EVAL has a serial 8 Kbytes EEPROM (up to 64 Kbytes available on request). Logos, advertising texts, macros, or the printer initialization can be filed in batch files.

Technical Data:



Paper: thermal paper, 58mm
Roll diameter: max. 31 mm / 12m. 60 g/square meter
Effective print width: 48 mm with 203 dpi
Print speed: max. 50mm/s
Character sets: 24, 32, 42, and 54 cpl
Bar code: Code 39, 2 from 5 int, EAN 13, EAN 8 (others on request)
Interfaces: RS232 up to 57.6 kbps or TTL
 optional infrared on board or with external adapter
 optional Centronics, external adapter
 optional through TTL adapter: RS422/485,
 TTY also opto-isolated
Data compression: Factor app. 3:1 (for graphic commands); PC compatible;
 Windows driver, therefore fast graphic printing,
 even through serial
Operating voltage: 3.0 - 7.2 V
 optional: charging circuit for one Li-Ion cell (3.6V)
 optional: charging circuit for four NiMH cells (4.8V)
Power consumption app.: Print: Pulse currents up to 6A (compl. black line);
 can be limited down to 0.7A (via program);
 therefore suitable for weaker
 power supplies
 Idle: 800 µA to 3 mA, depending on
 components
 Sleep mode: app. 100 µA
Dimensions: only 76.8 mm x 77.4 mm x 39.3 mm
Mounting depth: ca. 27 mm
Weight: including paper roll: only app. 150 g
Environment: 0 °C to 50 °C (-10 °C to +60°C with GeBE HQ paper)
MTBF: 50 km printed paper

Standard Product Versions:

We recommend that you start with our complete sets (All components are available separately for OEMs).

art.-no.	Nomenclature	Interface		Memory	Battery	Features		Color	
		RS-232	SPI for Centronics			power down	winder	character sets (cpl): 24, 32, 42, 54	antifazit RAL 7016
11429	GPT-4352-LV-82-24-V.24-at-SET1	X				X	X	X	opt. opt.
11430	GPT-4352-LV-82-24-V.24-EVAL-at-SET2	X		X	X	X	X	X	opt. opt.
11431	GPT-4352-LV-82-24-SPI(4,5V)-EVAL-at-SET3		X	X	X	X	X	X	opt. opt.
11554	GPT-4352-LV-82-24-IR-EVAL-at-SET4		X	X	X	X	X	X	opt. opt.

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