

GT863-PY

GSM | GPRS Terminal



Product Description

The GT863-PY terminal is a complete 2G ready-to-use solution for m2m applications. The embedded Python™ script interpreter enables your applications to run inside the terminal, making it a fully self-contained M2M platform. Programmable I/O ports can be used to monitor external signals, connect sensors, and switch external devices. The GT863-PY is capable of using any of the data services in GSM | GPRS networks and is a universal solution for most low-volume M2M and mobile data applications such as vending machines, POS, and proof of concept M2M devices.

Key Benefits

- Easy control through standard serial interface
- I/O ports and IIC Bus can be used for monitoring external signals, connecting sensors and switching external devices
- Easy firmware update by transmitting only a small delta file
- Customers can run their Python applications directly inside the terminal

Family Concept

The GT86x terminal family is designed for low volume projects, limited field trials, proof-of concept M2M devices, automatic meter reading, POS, and vending machines. They fully leverage the reliability and proven track record of the Telit GE865 GSM | GPRS core.

IoT Connectivity Ready

This product is capable of supporting the extensive suite of IoT Connectivity value-added services and connectivity you can use to enhance your application and boost your competitive advantage.

AVAILABLE FOR

EMEA

North America

Latin America

APAC

Korea

Australia

Combine your Cellular module with

Short Range modules



GNSS modules



www.telit.com

Complete, Ready to Use Access to the Internet of Things



IoT MODULES



IoT CONNECTIVITY



IoT PORTAL

ENABLING THE IoT
IS WHAT WE DO.

GT863-PY

Product Features

- Quad-band EGSM 850 / 900 / 1800 / 1900 MHz
- Control via AT commands according to GSM 07.05, 07.07 and Telit enhancements
- TCP/IP stack access via AT commands
- Serial port multiplexer GSM 7.10
- SIM access profile
- SMS support
- Fax: Group 3, class 1
- Telephony, emergency call
- Half rate, full rate, enhanced full rate and adaptive multi rate voice codecs (HR, FR, EFR)
- Superior echo cancellation & noise reduction
- DTMF
- SIM phonebook
- Fixed dialing number (FDN)
- Real-time clock
- Alarm management
- Buzzer management
- Status LED support
- IRA, UCS2 and GSM default character set
- Jamming detection & report
- Embedded TCP/IP stack, including TCP, IP, UDP, SMTP and FTP protocols
- PFM (Premium FOTA Management) Over-the-Air update
- Telit's EASY features EASY SCAN® automatic scan over GSM frequencies (with or without SIM card)

Data

GPRS

- GPRS class 10
- Mobile station class B
- Coding scheme 1 to 4
- PBCCH support

CSD

- Downlink/uplink up to 9.6 kbps

Environmental

- Dimensions: 107 x 64 x 33 mm
- Weight: 135 grams
- Temperature range
 - 30°C to +75°C (Operational)
 - 40°C to +85°C (Storage temperature)

Interfaces

- 4 general purpose I/O or IIC Bus
- D-type 9 pin RS-232 connector
- Serial interface
 - Baud rate from 300 to 115,200 bps
 - Autobauding up to 115,200 bps
 - short circuit (to ground) protection on all output
 - ITU-T V.24 serial link
- SMA female, 50 Ohm RF connector
- RJ11/6 pin for GPIOs
- Power connector with 4 pin
- On board SIM card holder, 3 V with realtime detection

Approvals

- Fully type approved conforming with R&TTE directive
- CE

Electrical & Sensitivity

- Output power
 - Class 4 (2W) @ 850 / 900 MHz
 - Class 1 (1W) @ 1800 / 1900 MHz
- Power consumption (typical)
 - Idle (registered, power saving): < 12 mA
 - Dedicated mode: 110 mA
 - GPRS cl.10: < 550 mA
- Supply voltage range: 9 – 24 V DC
- Sensitivity:
 - 107 dBm (typ.) @ 850 / 900 MHz
 - 106 dBm (typ.) @ 1800 / 1900 MHz

Software

- Python* application resources
- Python* script interpreter (module takes the application code directly in the Python* language)
- Memory: 1.9 MB of NV memory for the user scripts and 1 MB RAM for the Python* engine usage
- Over-the-air application SW update
- IIC Bus and SPI Bus controlled in Python*



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