

# GT864 PY

## Python programmable Quad Band GSM/GPRS terminal for advanced industrial M2M applications

The GT864 PY is a self-contained unit featuring the latest GSM/GPRS technology from Telit which can be extended with intelligent data processing capabilities using the Python scripting language.

As a quad-band GSM terminal operating in all defined GSM frequency bands, it can be deployed on a worldwide basis.

GT864 PY is an excellent product for system integrators whose focus is on application development using a programmable GPRS modem with I/O functionality and standard connectors.

GT864 PY can host customer developed python scripts inside the module and be updated “over-the-air”.

### Key Benefits

- Common support for RS232 based access to terminal functionality
- I/O interfaces and Python scripting support for advanced terminal-hosted applications
- Wide operating temperature range
- CE automotive certification
- Firmware Update over the Air (FOTA)

### Key Features

- Quad band GSM terminal
- Telit AT command set
- I/Os: 4 digital in; 1 analogue in & out
- RS232 Interface

### Sample Applications

- Implement protocol conversion tasks within the modem
- Count events and transmit count values at regular intervals
- Smart metering & traffic management applications



## Wireless Features

- Module Name: GE865 Quad
- GSM/GPRS Frequency Bands: 850 / 900 / 1800 / 1900 MHz
- GPRS Class: Class 10
- GPRS Features: Mobile station class B
- Coding scheme 1 to 4
- PBCCH support
- NACC, Extended TBF
- Output Power:
  - Class 4 (2W) for GSM850/GSM900
  - Class 1 (1W) for GSM1800/GSM1900
- CSD: Asynchronous non-transparent, up to 9.6 kbps, V.110
- USSD
- SMS: Text and PDU mode, Cell Broadcast, SMS over GPRS
- SIM Access Profile
- Additional Wireless Features: DARP/SAIC Support
- Additional Audio Features: DTMF
- Audio Profiles
- Fixed Dialing Number
- Echo cancellation & noise reduction

## Hardware Features

- IP Protection: IP40
- Memory: 1 MB RAM / 800 kB Flash
- SIM Card Holder: 1x (1,8/3 Volt)
- SIM Chip Option: Yes
- LEDs: 1x GSM +2x Configurable
- Realtime Clock: With alarm functionality
- Type Approvals: CE

**Optional Features:** Please contact us to discuss the development of customized terminals per your requirements.

## Software

- AT Command Set: Hayes Compliant, TS 27.005, 27.007 and Telit custom AT
- Programming Language: Python
- Firmware Update: Serial + FOTA
- SIM Application Toolkit: TS 51.014
- TCP/IP Stack: TCP, UDP, ICMP, HTTP, DNS, FTP, SSL, SMTP
- Cellular Positioning
- Jamming Detection

## Connectors

- D-Sub (9-pin): 1x Female (RS232)
- USB: Mini-USB (4x Dig. Inputs)
- RJ11: 1x (Power + 1 Analogue Input + 1 Output)
- FME: 1x Male (Antenna)

## Power Management

- Voltage Range: 5V - 36V
- Input Current (Max): 110 mA @12V; 60 mA @24V
- Output Voltage: 1V
- Output Current (Min): 0,4A
- Power Cons. (Idle Mode): ~ 18 mA (\*)

## Hardware Characteristics

- Operating Temperature: -30°C to +75°C
- Dimensions: 77x66x26 mm
- Weight: 91g

(\*) Measurement averaged (including peaks) over a minimum of 1 minute measurement interval.

### Accessories (exemplary)



### About Telic AG

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Product specifications are subject to change without prior notification.