

GT864 PY Terminal

The programmable GSM/GPRS Quad Band Terminal with TCP/IP, SMTP and E-Mail



GT864 PY Terminal is a self contained and programmable unit featuring the latest GSM/GPRS technology from Telit.

GT864 PY Terminal 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 Terminal offers the possibility to host a customer specific PYTHON script inside the module and to update the application "over-the-air".

Benefits:

- The use of custom programs allows fast and cost efficient application engineering.
- The RS232 port and the flexible I/O's allow connectivity to all relevant industrial and vehicle applications.
- The GPRS class 10 allows fast data transfer on up to four simultaneous GPRS-downlink channels and up to two uplink channels.
- The included TCP/IP stack gives system integrators fast access to IP connections and supports E-mail services just by using AT commands.
- The robust connectors and the professional housing allow the integration in tough environments such as vending machines, alarm systems or any other telemetry application.
- The extended temperature range from -30°C up to +75°C enables for integration in harsh environments.
- The wide input voltage range of up to 36V and the E-certificate allow the integration in vehicle applications for telematic solutions.
- The Quad Band functionality allows operation on all relevant GSM-frequencies.

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Technical Parameters:

- Programmable with Telit PYTHON
- Quad Band
- RS232 serial port
- 4 digital inputs
- 1 analogue input
- 1 digital output
- GPRS Class 10
- TCP/IP stack
- SMS and CSD
- E-mail
- 3 Status LEDs
- SIM card holder
- Over-the-air application software update
- Free PYTHON development tool available

Power Supply:

- 5-36VDC supply

Size, Temperature Range, Certificates:

- Overall dimensions (excluding connectors):
77 x 67 x 26 mm
- Weight: ~ 100g
- 30°C to +75°C (operational)
- 40°C to +85°C (storage temp.)
- E-certificate
- CE approval
- FCC approval
- RoHS compliant
- Made in Germany

Product Features

- Programmable with Telit PYTHON script. 2MB of NV Memory for the user script
- Quad Band GSM/GPRS
- GSM 850/900 Power class 4 (33dBm)
- GSM 1800/1900 Power class 1 (30dBm)
- Mobile Class B
- Extended Measurement Reporting
- Compliant with 3GPP Release 99 Protocol Stack

Interfaces

- 4 digital inputs (USB mini connector)
- 1 analogue input (RJ11 connector)
- 1 digital output (RJ11 connector)
- RS232 9pin DSub
- Power: 5 - 36VDC (RJ11)
- Antenna: 50 Ohm (FME male)
- SIM card reader: 1,8V/3V interface with SIM detection
- Control by AT commands (GSM 27.005, 27.007 plus proprietary commands)
- Programming interface based on Telit PYTHON

Data Features

- GPRS Class 10
- Multiple simultaneous PDP contexts
- GPRS Coding Schemes CS1-CS4
- Transparent and non-transparent CSD up to 9.6 kbps
- Modem Type; V21, V22, V23, V22bis, V26ter, V32, V34, V24
- V42bis compression
- GSM supplementary services supported
- GSM 27.010 Multiplexing Protocol
- USSD
- Fax Group 3, Class1

Short Message Service Features (SMS)

- Text and PDU mode
- Point to point mobile originated and mobile terminated
- SMS (MT/MO)
- SMS Cell Broadcast

Internet Protocol

- TCP/IP protocol stack
- Extensive AT command access to TCP/IP stack
- Multiple sockets with listening/server capability
- IPv4 protocol
- Dynamic & Static IP address allocation
- PPP protocol (PAP)
- UDP protocol
- FTP client File Transfer Protocol (file transfers)
- SMTP
- E-mail

Firmware Update Over the Air

- Firmware update over the air based on Telit Service (TFUS)
- Limited data volume as only the delta will be sent via GPRS
- GT864 has to be pre-registered to the database

Other Features

- SIM Application Toolkit Class 2
- 3 x LED for status indication
- Power supply voltage measurement via AT-command
- SIM phonebook
- Fixed Dialing Number (FDN)
- Real time clock
- IRA character set
- Jamming detection & report
- Telit Easy Scan: automatic scan over GSM frequencies (also without SIM card)

Accessories

- CEP **power supply** for GSM/GPRS Terminals
- **Antennas**
- **Cables for power, I/O's and RS2322**

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Note: Specification is preliminary and subject to change without prior notice.

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