










GT863-PY

Terminal



-  Embedded TCP/IP Stack
-  GPRS Class 10
-  Embedded FTP and SMTP Client
-  PYTHON* Script Interpreter
-  On Board SIM Holder
-  Quad Band
-  RoHS Compliant
-  SIM Access Profile
-  Serial Port Multiplexer (GSM 7.10)

The Telit GT863-PY terminal is the complete modem solution for wireless m2m applications.

GT863-PY is the new generation of Telit terminals based on the GE863 core engine with Quad-Band and RoHS compliance as well as additional new features.

The GT863-PY with Python* feature offers as an option the possibility to run customer programs inside the modem, thus making the terminal a complete self-contained hardware for individual customer solutions. Programmable I/O ports and the IIC-Bus can be used to detect external signals, connect sensors and to switch external devices.

The GT863-PY offers all relevant data services over the GSM/GPRS networks. As all Telit modules, the GT863-PY offers the Jamming Detection functionality which allows the unit to detect attempts to discontinue the GSM communication by interfering with the GSM signal.

Directly controlled by a standard serial RS-232 interface and offering a broad supply voltage range (9–24 V DC), the GT863-PY is a universal solution for all low-volume m2m and mobile data applications.

As a part of Telit's corporate policy of environmental protection, all new Telit products comply to the RoHS (Restriction of Hazardous Substances) directive of the European Union (EU Directive 2002/95/EG).

Product Features

- Quad-band EGSM 850 / 900 / 1800 / 1900 MHz
- Output Power
 - Class 4 (2W) @ 850 / 900 MHz
 - Class 1 (1W) @ 1800 / 1900 MHz
- Control via AT commands according to GSM 07.05, 07.07 and proprietary Telit
- Supply Voltage Range: 9–24 V DC
- TCP/IP stack access via AT commands
- Power Consumption (typical values)
 - power off: 26 uA
 - Idle (registered, power saving): < 8 mA
 - Dedicated mode (max): 350 mA
 - GPRS cl.10 (max): < 700 mA
- Sensitivity:
 - 107 dBm (typ.) @ 850 / 900 MHz
 - 106 dBm (typ.) @ 1800 / 1900 MHz
- Dimensions: 107 x 64 x 33 mm
- Weight: 135 gr.
- Temp. range: -20° / +70° C

Making machines talk.

GT863-PY

Terminal



Interfaces

- 4 I/O General Purpose I/O or IIC Bus
- D-Type 9 pin connector for RS-232 communication
Baud rate from 300 to 115.200 bps
Autobauding from 2.400 to 38.400 bps
Short Circuit (to ground) protection on all outputs. ITU-T V.24 Serial Link
- SMA female, 50 ohm RF connector
- RJ11 / 6 pin for GPIOs
- Power Connector with 4 pin
Input power = 9 -24 VDC @ 1.2 A min
- On board SIM holder, 3V with real time detection

Audio

- Telephony, Emergency Call
- Half rate, Full rate, Enhanced Full rate and Adaptive Multi Rate voice codecs (HR, FR, EFR)
- Superior Echo Cancellation & Noise Reduction
- Handset & Hands-free operations
- DTMF

Approvals

- Fully type approved conforming with R&TTE directive

SMS

- Point-to-Point mobile originated and mobile terminated SMS
- Concatenated SMS supported
- SMS Cell Broadcast
- Text and PDU mode

Circuit Switched Data Transmission

- Asynchronous Transparent Circuit Switched Data (CSD) up to 14,4 kbps
- Asynchronous Non-transparent CSD up to 9,6 kbps
- V.110

GPRS Data

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

Fax

- Group 3, Class 1

GSM Supplementary

- Call Forwarding
- Call Barring
- Call Waiting
- Advice of Charge
- Calling Line Identification Presentation (CLIP)
- Calling Line Identification Restriction (CLIR)
- Unstructured supplementary Services Mobile Originated Data (USSD)
- Closed User Group

Additional Features

- SIM Phonebook
- Fixed Dialling Number (FDN)
- Real Time Clock
- Alarm Management
- Buzzer Management
- Status LED support
- IRA character set
- Jamming Detection & Report
- Embedded TCP/IP stack, including TCP, IP, UDP, SMTP and FTP protocol

Python* application resources

- Python* script interpreter (allows driving the module »internally« implementing the application code directly in the Python* language)
- Memory: 3 MB of NV Memory for the user scripts and 1.5 MB RAM for the Python* engine usage
- Over-the-Air Application SW update
- IIC Bus and SPI Bus controlled in Python*



Telit's EASY® features

- »EASY SCAN« automatic scan over GSM frequencies (also without SIM card)

Order-No.

GT863-PY 3 990 250 466



Telit Communications S.p.A.
Via Stazione di Prosecco, 5/B
I-34010 Sgonico (Trieste), Italy
Tel +39 040 4192 200
Fax +39 040 4192 383
E-Mail: modules@telit.com
www.telit.com

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