

GSM/GPRS Modules GE863-QUAD, GE863-PYTHON

GSM and GPRS modules 850/900/1800/1900 with EASY GPRS Embedded (TCP/IP stack inside), EASY CAMERA, EASY SCAN and EASY SCRIPT Support.



GE863 wireless data modules are the ready solution for all your M2M wireless applications using GSM and GPRS all over the world.

- Designed for Industrial Applications
- Rugged design
- Small, lightweight and easy to integrate
- Low power consumption
- Extended temperature range
- BGA Package
- EASY GPRS Embedded:
 - Embedded TCP-IP stack and DNS query protocol
 - Just use AT commands to establish an internet connection through the GPRS network
- EASY CAMERA: take pictures and e-mail.
- EASY SCAN: all gsm channels for parameters
- EASY SCRIPT: run your own scripts (Python only) with AT commands. 3,0 MB flash memory.
- GSM Jamming detection
- Full 99/5/CE type approval
- Summer 2006: Intergrated – embedded GPS receiver

All GM862 versions are 100% compatible.

Excellent technical support to help you in the integration of your solution:

- Exhaustive product documentation
- Starter Kit and reference design
- Quick technical assistance by dedicated e-mail services and a dedicated technical forum provided by Round Solutions

Product Features

- Quad band 850/900/1800/1900 MHz
- Output Power:
 - Class 4 (2W) at GSM 900 MHz
 - Class 1 (1W) at GSM 1800/1900 MHz
- Control via AT commands (ITU, GSM, GPRS and Telit Supplementary)

- Supply Voltage: 3.4 V ÷ 4.2 V , Nominal: 3.8 V
- Power consumption: Idle mode: <3.5 mA
Dedicated mode 250 mA (average typ)
- Dimensions (mm): 6 x 43.9 x 43.9
- Weight (g): 20 (including shielding)
- Temp range: -20 to +70 (operational)

Interfaces

- 56 BGA pads:
Power supply, Serial bi-directional bus, 13 I/O ports, external SIM , Analog audio, 1 A/D port, 1 regulated output
Camera direct Support
- V.24 Serial link
Baud rate from 300 to 115.2 kbps
Autobauding from 1200 to 57.600 bps
- 50 Ohm antenna connector

Audio

- Telephony, Emergency calls, Half/Full/Enhanced Full rates
- Superior echo cancellation & Noise reduction
- DTMF
- Handset and hands free operations

SMS

- SMS Mobile Originated (MO)/Terminated (MT)
- SMS Cell Broadcast (CB – DRX)
- EMS (concatenated messages)

Data

- Circuit Switched Data (CSD) up to 14.4 kbps
- -GPRS Class 8/10 up to 115 KBps (class 10)
- Coding schemes CS1 to CS4
- PBCCH support

Fax

- Group 3

GSM Supplementary Services

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

Other Features

- SIM Phonebook management, Fixed Dialling Number (FDN), SIM Toolkit Class 2, Real Time Clock, Alarm Management
- GSM Jamming detection
- Easy- GPRS, CAM, SCAN and SCRIPT