round solutions
Specialists in M2M Communications

GSM/GPRS Modules
GM862-GPRS, GM862-QUAD and GM862-PYTHON

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

GM862 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
- EASY GPRS Embedded:
  - Embedded TCP-IP stack and DNS query protocol
  - Just use AT commands to establish an internet connection though 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 ETSI/R&TTE type approval
- Integrated SIM card reader
- Summer 2006: Intergrated – embedded GPS receiver
- ROHS compliant

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 dediacted technical forum provided by Round Solutions

Product Features

- Dual Band 900/1800 MHz GM862-GPRS Quad band 850/900/1800/1900 MHz on GM862-QUAD and –PYTHON
- 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

- 50 pin industrial connector:
  Power supply, Serial bi-directional bus,
  7 general purposes I/O ports,
  Internal / External SIM 3 V , Analog audio,
  Camera direct Support (QUAD/PY only)
- 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 85.6 KBps (class 10 - QUAD)
- Coding schemes CS1 to CS4
- PBCCH support
- MS class B

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

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