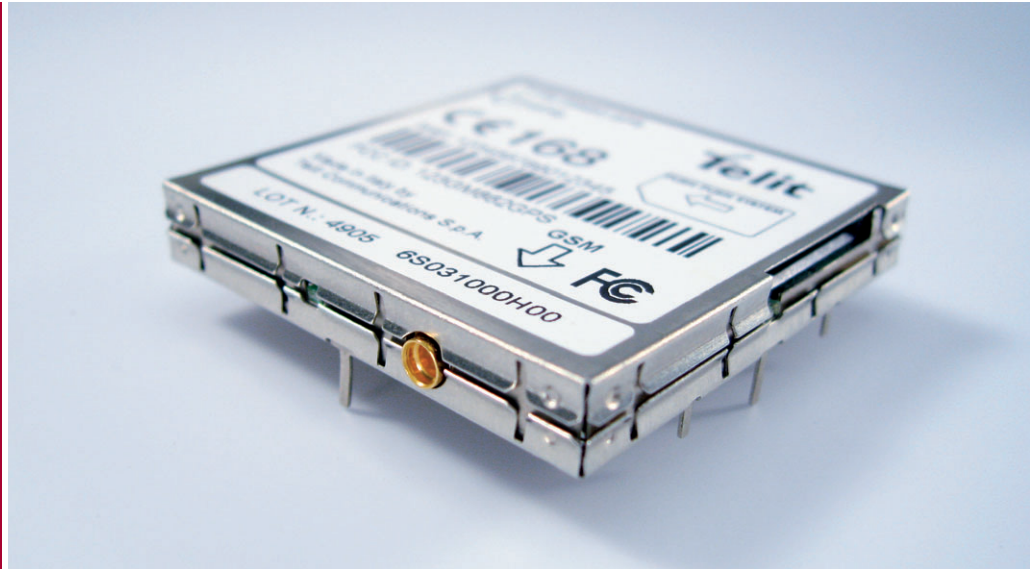



GM862-GPS

Modem




 SiRF®
Powered

 20-Channel High
Sens. GPS Receiver

 Pin-to-Pin
Backw. Compatible

 Quad Band


 RoHS Compliant


 On Board
SIM Holder

 Embedded
TCP/IP Stack

 GPRS Class 10

 PYTHON*
Script Interpreter

 Embedded FTP
and SMTP Client

 Extended
Temperature Range

 Extended
RF Sensitivity

The new GM862-GPS module is at the cutting edge of the Telit product line. It combines a Quad-Band GSM/GPRS modem, with a 20 channel high sensitivity SiRFstarIII™ Single Chip GPS receiver.

Based on the Pin-to-Pin compatibility of the GM862-GPS module to all previous versions, the functionality of existing and new applications can be extended by the latest state of the art GPS technology.

With its ruggedized design, extended temperature range, integrated SIM-Card reader and industrial connectors, the Telit GM862-GPS is the perfect platform for all telematics applications, Fleet Management-, Tracking- and Security-devices and more.

Additional features like Jamming Detection, integrated TCP/IP protocol stack, Easy Scan functionality and the direct support of an embedded camera offer extended functionality to the application at no additional cost.

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: 3,4-4,2 V DC
3,8 V DC recommended
- GSM Power Consumption (typical values)
 - power off: < 26 uA
 - Idle (registered, power saving): < 4 mA
 - Dedicated mode (max): 270 mA
 - GPRS cl.10 (max): 500 mA
- Serial Port Multiplexer GSM 7.10
- SIM Access Profile
- GPS Power Consumption:
Stand-by current: 1 mA
Operating current: 70 mA,
including 20 mA for the antenna LNA
- GSM Sensitivity:
-107 dBm (typ.) @ 850 / 900 MHz
-106 dBm (typ.) @ 1800 / 1900 MHz
- Dimensions: 44 x 44 x 6.7 mm
- Weight: 23 gr.
- Extended Temp. range: -30° / +80° C
- RoHS compliant

Making machines talk.

GM862-GPS

Modem



original size

GPS Receiver

- High sensitivity for indoor reception, up to -159 dBm
- Extremely fast TTFF's at low signal levels
- Hot starts < 2 seconds
- 200,000+ effective correlators
- Supports 20-Channel GPS
- GPS NMEA 0183 output format

Interfaces

- 50-pin board to board Molex connector
- 13 I/O ports max.
- Analog Audio (balanced and unbalanced)
- 1 A/D converter, Buzzer output
- Camera direct support mode on I/O ports
- ITU-T V.24 Serial Link through UART: at CMOS level
Baud rate from 300 to 115.200 bps
Autobauding from 2.400 to 57.600 bps
- 50 Ohm MMCX Antenna connector
- On board SIM holder, 1.8V / 3V with real-time detection

Audio

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

Approvals

- Fully type approved according to R&TTE
- CE, GCF, FCC, PCTRB, IC

SMS

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

Circuit Switched Data

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

GRPS 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 & Call Hold
- 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
- Battery Management
- Network LED support
- IRA character set
- Jamming Detection & Report
- Embedded TCP/IP stack, including SMTP and FTP protocol
- PYTHON script interpreter allows driving the module »internally« implementing the application code directly in the Python language.
Approx. 3 MB of NV Memory for the user scripts and 1.5 MB RAM for the Python engine usage.



Telit's EASY® features

- »EASY CAMERA« it provides the capability of a direct support of a VGA colour camera
- »EASY SCAN« automatic scan over GSM frequencies (also without SIM card)

Order-No.

GM862-GPS 3 990 250 657

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Telit wireless solutions

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