

●● GE864-GPS

Product features

- Quad-band EGSM 850 / 900 / 1800 / 1900 MHz
- GSM | GPRS protocol stack 3GPP Release 4 compliant
- Control via AT commands according to 3GPP TS 27.005, 27.007 and Telit custom AT commands
- Serial port multiplexer 3GPP TS 27.010
- SIM access profile
- SIM application toolkit 3GPP TS 51.014
- DARP/SAIC support
- High sensitivity A-GPS receiver
- SMS support
- SMS over GPRS
- Telephony, emergency call
- Half rate, full rate, enhanced full rate and adaptive multi rate voice codecs (HR, FR, EFR, AMR)
- Superior echo cancellation & noise reduction
- Multiple Audio profiles pre-programmed and fully configurable by mean AT commands
- DTMF
- SIM phonebook
- Fixed dialing number (FDN)
- Real-time clock
- Alarm management
- Network LED support
- IRA, GSM, 8859-1 and UCS2 character set
- Jamming detection
- Embedded TCP/IP stack, including TCP, IP, UDP, SMTP, ICMP and FTP protocols
- PFM (Premium FOTA Management) Over-The-Air Update service
- Remote AT commands
- Event monitor
- Telit's EASY features
EASY SCAN ® automatic scan over GSM frequencies [also without SIM card]

Data

GPRS

- GPRS class 10
- Mobile station class B
- Coding scheme 1 to 4
- PBCCH support
- GERAN Feature Package 1 support (NACC, Extended TBF)

CSD

Environmental

- Dimensions: 30 x 30 x 2.8 mm
- Weight: 6 grams
- Extended temperature range
-40°C to +85°C (operational)
-40°C to +85°C (storage temperature)

GPS Receiver

- GPS current consumption:
- Hibernate: 0,045mA
- Acquisition: 45mA
- Tracking: 37mA
- Integrated LNA
- High sensitivity for indoor reception, up to -163 dBm
- Accuracy < 2.5 m
- Extremely fast TTFF's at low signal levels
- Hot start < 1s
- Warm start < 35 s
- Cold start < 35 s
- Active Jamming Remover
- Supports 48-channel GPS, L1 1575.42 MHz
- GPS NMEA 0183 output format
- Date WGS-84
- Dedicated GPS AT commands
- SBAS (WAAS, EGNOS, MSAS, GAGAN) support
- Optional Assisted GPS feature

Interfaces

- 10 I/O ports maximum
- Analog Audio (balanced)
- 2 A/D plus 1 D/A converter
- Buzzer output
- ITU-T V.24 serial link through CMOS UART:
 - Baud rate from 300 to 115,200 bps
 - Autobauding up to 115,200 bps
 - 2 GPS serial ports
 - PPS signal

Approvals

- Fully type approved conforming with R&TTE directive
- CE, GCF, FCC, PTCRB, IC, Anatel

Electrical & Sensitivity

- Output power
 - Class 4 (2W) @ 850 / 900 MHz
 - Class 1 (1W) @ 1800 / 1900 MHz
- Power consumption (typical values)
 - Power off: < 62 uA
 - Idle (registered, power saving): 1.5 mA @ DRX=9 (GPS OFF)
 - Dedicated mode: < 240 mA @ max power level
 - GPRS cl.10: < 420 mA @ max power level
- Supply voltage range: 3.22 – 4.5 V DC (3.8 V DC recommended)
- Sensitivity:
 - 107 dBm (typ.) @ 850 / 900 MHz
 - 106 dBm (typ.) @ 1800 / 1900 MHz

Software

- Python* application resources
- Python* script interpreter (module takes the application code directly in the Python* language)
- Memory: 800 kB of NV memory for the user scripts and 1 MB RAM for the Python* engine usage



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