

GSM | GPRS

GC864-QUAD V2 Compact



- Ultra Compact
- Telit Unified AT Command Set
- RUN AT Commands Remotely
- Telit Unified Form Factor
- Quad Band GPRS
- GPRS Class 10
- RoHS Compliant
- SIM Access Profile
- PYTHON* Script Interpreter
- 80 Pin Connector
- Embedded FTP and SMTP Client
- Extended Temperature Range
- Extended RF Sensitivity
- Serial Port Multiplexer (3GPP 27.010)
- Embedded TCP/IP Stack

optional

- Integrated SIM holder



TELIT INFINITA SERVICES



The V2 family is the new generation of Telit modules which offers most of the features of the previous versions plus a GSM/GPRS protocol stack 3GPP Release 4, the Downlink Advance Receiver Performance [DARP] feature for Single Antenna Interference Cancellation [SAIC], the Enhanced Measurement Report, GERAN Feature package 1, which assists in supporting the Extended Uplink TBF and Network Assisted Cell Change [NACC], the control via remote AT Commands and Event Monitor.

The GC864 product family is one of the smallest GSM/GPRS quad-band modules with industrial connectors in the market.

With its ultra-compact design and extended temperature range, the Telit GC864-QUAD V2 is the perfect platform for medium-volume m2m applications and mobile data devices. Additional features such as integrated TCP/IP protocol stack and serial multiplexer give extend functionality of the application at no additional cost.

The GC864-QUAD V2 makes it furthermore possible to run the customer's application inside the module, thus making it one of the smallest, complete platforms for m2m solutions. GC864-QUAD V2 is also available with integrated SIM Holder.

All Telit modules, support Over-the-Air firmware update by means Premium FOTA Management. By embedding RedBend's vCurrent® agent, a proven and battle-tested technology powering hundreds of millions of cellular handsets world-wide Telit is able to update its products by transmitting only a delta file, which represents the difference between one firmware version and another.

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

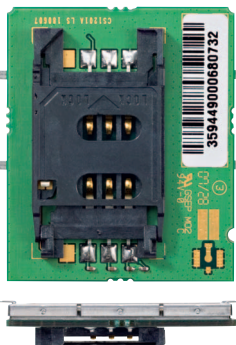
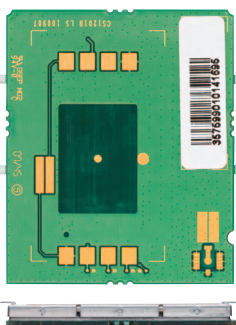
Product features

- 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 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
- Supply voltage range: 3.22-4.5 V DC (3.8 V DC recommended)
- TCP/IP stack access via AT commands
- Sensitivity:
 - 107 dBm (typ.) @ 850 / 900 MHz
 - 106 dBm (typ.) @ 1800 / 1900 MHz
- Power consumption (typical values)
 - Power off: 62 uA
 - Idle (registered, power saving): 1.5 mA @ DRX=9
 - Dedicated mode: <240 mA @ max power level
 - GPRS cl.10: <420 mA @ max power level
- Dimensions: 30 x 36.2 x 3.2 mm
- Weight: 6.1 grams
- Extended temperature range
 - 40°C to +85°C (operational)
 - 40°C to +85°C (storage temperature)
- RoHS compliant
- DARP/SAIC support

Making machines talk.®

GC864-QUAD V2

Compact



actual size GC864-QUAD

GC864-QUAD with SIM holder

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All Rights Reserved are retained in Python.

Distributed by:

Interfaces

- 80-pin Molex connector
- 10 I/O ports maximum
- Analog audio (balanced)
- 2 A/D plus 1 D/A converters
- Buzzer output
- ITU-T V.24 serial link through UART:
 - CMOS level
 - Baud rate from 300 to 115,200 bps
 - Autobauding up to 115,000 bps
- 50 Ohm murata GSC antenna connector

Audio

- 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

Approvals

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

SMS

- Point-to-point mobile originated and mobile terminated SMS
- Concatenated SMS supported
- SMS cell broadcast
- Text and PDU mode
- SMS over GPRS

Circuit switched data transmission

- 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
- GERAN Feature Package 1 support (NACC, Extended TBF)

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
- SIM Holder (only for GC864-QUAD V2 variant with SIM holder)
- 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

Python* application resources

- Python* script interpreter (module takes the application code directly in the Python* language)
- Memory: 1.9 MB of NV memory for the user scripts and 1 MB RAM for the Python* engine usage
- Over-the-air application SW update
- Script execution speed increased up to 4 times compared to the GC864-QUAD



Telit's EASY features

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

Order-No.

Please contact your Telit representative for order codes and all further information



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