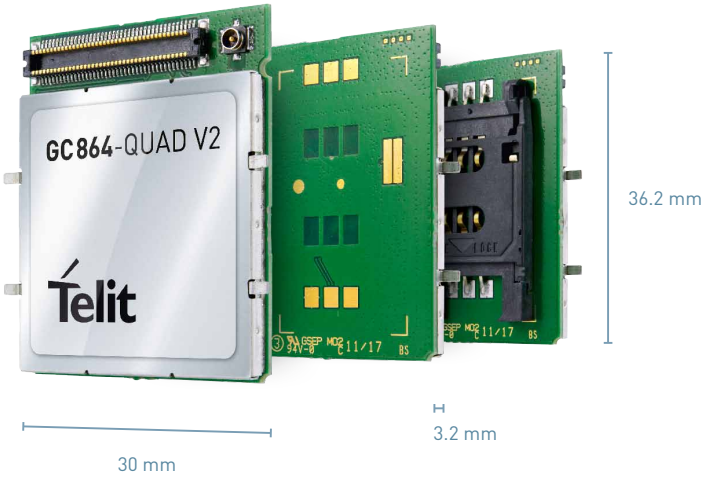
GC864-QUAD V2

GSM | GPRS Compact



Product Description

The Quad-band 850/900/1800/1900 MHz GSM | GPRS GC864-QUAD V2 is designed for industrial applications requiring a compact footprint and board-to-board connector. The xC864 family provides pin-to-pin compatibility with its UMTS | CDMA counterpart products. This module allows a SIM holder to be mounted on the bottom side of its PCB. This option reduces the integration effort.

Key Benefits

- Design once and deploy globally thanks to the xC864 unified form factor
- Easy firmware update by transmitting only a small delta file
- PYTHON Script Interpreter - customers can run their Python applications directly inside the module
- RUN AT Remote command and event monitoring services
- SIM Access Profile
- Premium FOTA Management - Easy firmware update by transmitting only a small delta file

Family Concept

The xC864 Unified Form Factor family includes GSM | GPRS, UMTS | HSDPA and CDMA 1xRTT air interfaces in cellular modules featuring a common 30x36.2 mm footprint with the same 80-pin board-to-board connector. This allows developers and integrators to easily drop in different xC864 family modules supporting any of the major cellular technologies listed above with little design and integration time and effort.

Telit IoT LOCATE

This product supports IoT LOCATE, a Telit portal-based service that provides a device's position based on observed cellular Cell-IDs. Accessing a database of over 40 million cell-IDs globally, IoT LOCATE can provide a position for every use-case including indoors/underground, outdoors, and boundary situations.

IoT Connectivity Ready

This product is capable of supporting the extensive suite of IoT Connectivity value-added services and connectivity you can use to enhance your application and boost your competitive advantage.

AVAILABLE FOR

- EMEA
- North America
- Latin America
- APAC
- Korea
- Australia

Combine your **Cellular** module with

Short Range modules

GNSS modules

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Complete, Ready to Use Access to the Internet of Things

IoT MODULES IoT CONNECTIVITY IoT PORTAL

ENABLING THE IoT
IS WHAT WE DO.

GC864-QUAD V2

Product Features

- Quad-band EGSM 850 / 900 / 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
- DARP/SAIC support
- 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
- 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
- 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 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)

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

Approvals

- Fully type approved conforming with R&TTE
- 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
  - 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
- Over-the-air application SW update
- Script execution speed increased up to 4 times compared to the GC864-QUAD

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Join the Telit Technical Forum

For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all IoT topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing IoT community and exchange experiences.

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