

● ● **GE 910-QUAD**

GSM | GPRS Embedded



Product Description

The GE910 is a 2.5G cellular module designed to be fully compatible with Telit's HSPA and EV-DO products, also member of the compact, and connector-less xE910 unified form factor family. This allows you to design your application once and take advantage of global coverage by replacing the module with an UMTS, HSPA+, 1xRTT, EV-DO, or LTE alternate for your next market or for higher data rates. The LGA (Land-Grid Array) package enables an ultra-low profile, integrated solution while at the same time providing enhanced mechanical resistance to shock. An on-board ARM11 processor lets you deploy even the most demanding applications with high processing power requirements.

The GE910 is Telit first GSM | GPRS series of cellular modules to provide USB 2.0 Full Speed interface. Furthermore, the GE910 makes it possible to run the customer's applications inside the module using Python Script Interpreter, thus making it one of the smallest, complete platforms for m2m solutions. The GE910 supports embedded SIM chip as a mounting option, making it the ideal solution for durable and rugged designs, and reducing BOM cost and size on the customer's application. The m2mAIR SIM chip provides an all-in-one connectivity solution.

Key Benefits

- Design once and deploy globally, thanks to the xE910 unified form factor
- Ideal platform for medium-to-high-volume m2m applications
- Superior performance processor suitable for applications requiring high computing capacity

Family Concept

The xE910 Unified Form Factor family is comprised of pin-to-pin compatible modules in Telit's broadest range of cellular air interfaces and band combinations making it a pillar of the concept "design once and deploy globally".

A one-time design and integration effort enables worldwide or regional device re-use across different data rates and wireless technologies with air interfaces in GSM | GPRS, UMTS | HSPA+, 1xRTT, EV-DO, and LTE (pre-release). The xE910 family was conceived to enable applications to be easily upgraded in a number of ways. For example: migrating from 2G to 3G or 4G; or upgrading from 2 bands to 3, 4, or more. The family fully preserves the core design of the application or device from launch to phase-out with modules packaged in a common 28.2 x 28.2 mm LGA footprint. It is recommended for mid to high-volume, compact sized applications.

Telit m2mLOCATE

m2mLOCATE is a Telit cloud-based service that provides a device's position based on observed cellular Cell-IDs. Accessing a database of over 40 million cell-IDs globally, m2mLOCATE can provide a position for every use-case including indoors/underground, outdoors, and boundary situations.



m2mAIR Mobile and Cloud Ready

This product is capable of supporting the extensive suite of Value Added Services from m2mAIR Mobile including Module Management and others which make the management of m2m deployments under mobile networks effective, enhancing profitability and reliability. It is also Cloud-ready which means that the AT command library in this module includes a set of high-level commands designed exclusively for quick and hassle-free on-boarding of the device to the cloud and to back-end systems and servers. Telit Cloud-ready modules powered by deviceWISE make application-level data flows and controls simple to program, maintain and improve.

AVAILABLE FOR

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

Click-to-Cloud – with Powerfull AT Commands



Combine your Cellular module with

- Short Range modules
- GNSS modules

www.telit.com

Complete, Ready to Use Access to the Internet of Things



Telit Modules + m2mAIR Mobile Value-Added Services including Connectivity



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Product features

- 4 Bands GSM | GPRS:
850 / 900 / 1800 / 1900 MHz
- Quad Band GPRS class 10
- SIM Access Profile
- 3GPP release 4 compliant
- Control via AT commands according to 3GPP TS27.005, 27.007 and customized Telit AT commands
- Serial port multiplexer 3GPP TS27.010
- SIM application Tool Kits 3GPP TS 51.014
- Built in UDP/TCP/FTP/SMTP stack
- Voice and SMS
- Standard and extended AT command set
- Jammer rejection

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 28.2 x 28.2 x 2.25 mm
- Weight: 3.6 grams
- Extended temperature range

Interfaces

- 10 I/O ports maximum including multifunctional I/Os
- Analog and digital Audio
- USB 2.0 FS Device Mode
- 2 UART
- I2C (SW emulated)
- 1.8 V / 3 V SIM interface

Approvals

- CE, GCF (Europe)
- FCC, PTCRB, IC (North America)
- ANATEL (Brazil)

Electrical & Sensitivity

- Output power
 - Class 4 (2 W, 33 dBm) @ GSM 850 / 900
 - Class 1 (1 W, 30 dBm) @ GSM 1800 / 1900
- Supply voltage
 - Nominal: 3.8 VDC
 - Range: 3.22 - 4.5 VDC
- Sensitivity
 - 107 dBm @ GSM 850 / 900 MHz
 - 107 dBm @ DCS1800 / PCS1900 MHz

Software

- Python* application resources
- Python* script interpreter (module takes the application code directly in the Python* language)
- Memory: 2 MB of NV memory for the user scripts and 2 MB RAM for the Python* engine usage

AppZone application resources (Available soon)

- Programming language: C
- IDE: Eclipse
- Dedicated File System: 5 MB
- Separate App. RAM Space: 2 MB



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For a quicker and more rewarding integration experience join the Telit Technical Forum. There you can browse the first open forum covering all m2m topics, get direct support by region (EMEA, North America, Latin America, APAC), take part in this quickly growing m2m community and exchange experiences.