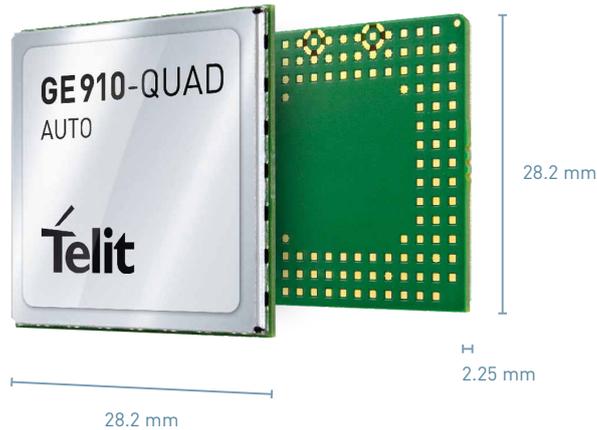


GE910-QUAD AUTO

GSM | GPRS Embedded



Product Description

The GE910-QUAD AUTO is the automotive grade member of the GE910 GPRS product series. Developed and manufactured according to ISO TS16949 quality processes, it is targeted at the most demanding automotive applications. 2G member of Telit's xE910 Unified Form Factor Family, it is offered in a 28 x 28 mm LGA packaging engineered for increased robustness. The GE910-QUAD AUTO provides both UART and USB Full Speed communication interfaces. Powered by an ARM11 core, the GE910-QUAD AUTO features an embedded Python Script Interpreter to run customer's applications inside the module without the need for any external microprocessor.

Key Benefits

- Ideal for 2G applications for OEM and Aftermarket Automotive with full ISO TS16949 quality processes.
- Allows reduction of final BOM cost with a powerful ARM11 processor and on board memory to run customer applications in the module
- Easy to integrate with USB 2.0 full speed interface
- Internet application friendly with integrated TCP / IP and UDP / IP stacks
- Voice-capable for applications requiring either analog or digital (DVI) interfaces
- Complete SMT platform for m2m solutions running the customer application inside the module with embedded Python Script Interpreter

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.

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 IoT LOCATE

IoT LOCATE is 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.

AVAILABLE FOR

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

Combine your Cellular module with

Short Range modules



GNSS modules



www.telit.com

Complete, Ready to Use Access to the Internet of Things



GE910-QUAD AUTO

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
- eCall compliant according to 3GPP TS 26.267
- Voice and SMS
- IP stack with TCP and UDP protocol
- Standard and extended AT command set
- Jammer rejection

Data

- Asynchronous non-transparent
CSD up to 9.6 kbps
- V.110
- GPRS class 10
- Mobile station class B
- Coding scheme 1 to 4
- PBCCH support
- GERAN Feature Package 1 support
(NACC, Extended TBF)

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 UARTs
- 1 I2C (SW emulated)
- 1.8 V / 3 V SIM interface
- 1PPS for precise timing
- EGNOS, WAAS and MSAS

Approvals

- CE (Europe)

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



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.