



ZETA-GEP-LTE4 (EU)

Low Power 4G / LTE Category 4 Industrial Modem with GPIO & GNSS

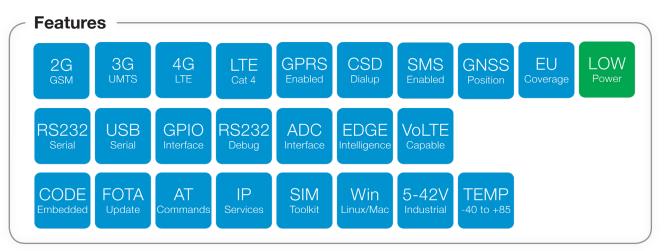


General Description

The ZETA-GEP-LTE4 (EU) is a cutting edge, low power industrial modem with general purpose interfaces. It will connect equipment to the European LTE Cat 4 network and provide backwards compatibility to the existing European 3G / UMTS and 2G / GSM networks. The modem has a full global GNSS receiver which supports GPS, Glonass, BeiDou, QZSS and Galileo. It operates in a low power state due to it's intelligent power saving design, making it ideal for use in industrial IoT applications.

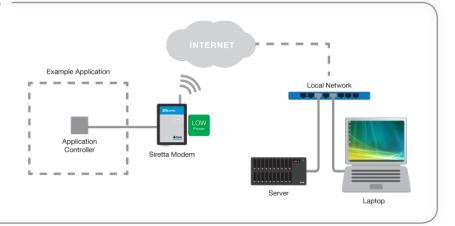
The ZETA-GEP-LTE4 (EU) can monitor general purpose inputs and drive full specification outputs. Other interface options include legacy RS232 for connection to existing equipment, and a high speed USB interface.

The powerful C development environment reduces redundancy, lowers system component costs, allowing developers to maximise the power of their application directly on the device, whilst eliminating the need for an external microcontroller. It means the ZETA-GEP-LTE4 (EU) lends itself to rapid proof-of-concept and time to market, with low risk and maximum scalability, offering intelligence and decision making at the cloud edge.



Featured Applications

- » CCT\
- » Video Surveillance
- » Car Parking Payment
- » Kiosks
- » Smart Cities
- » Alarm Notification Systems
- » Environmental Monitoring
- » Asset Tracking
- » Telematics
- » ANPR
- » Agriculture
- » Security Systems
- » Food and Beverage



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ZETA-GEP-LTE4 (EU)

Low Power 4G / LTE Category 4 Industrial Modem with GPIO & GNSS

General Features

» 6 Bands: 4G / LTE:

B1(2100), B3(1800), B7(2600), B8(900), B20(800), B28A(700) MHz

» 3 Bands: 3G / UMTS

B1(2100), B3(1800), B8(900) MHz

» 2 Bands: 2G / GSM | GPRS: B3(1800), B8(900)

- » LTE FDD Category 4
- » 3GPP release 10 compliant
- » VoLTE Support
- » SIM Application Tool Kit 3GPP TS 51.014
- » Control via AT commands according to 3GPP
- » TS27.005, 27.007 and Telit Custom AT commands
- » IPv4/IPv6 stack with UDP/TCP/FTP/SMTP protocol
- » Supports GPS, Glonass, Beidou, Galileo, QZSS

Interfaces

- » 1 x RS232 serial port interface (9-wire)
- » 1 x USB 2.0 FS
- » 1 x RJ12 power connection (5 42V) Nominal supply 12V

Power on & power off control

- » 1 x SMA female cellular antenna connector
- » 1 x SMA female GPS antenna connector
- » 1 x SIM card reader (push-push) 3V, 1.8V
- » 3 x external LED status indicators (Red, Green, Blue)

Includes GPIO (10-way connector)

- » 3 x GPI: Inputs (0-42V)
- » 2 x GPO: Outputs (0-42V @1A)
- » 1 x ADC (0-42V)
- » 1 x RS232 secondary serial port (3-wire TTL)
- » 1 x PSU Output @ Vcc

Environmental

- » Dimensions: 93mm x 67mm x 28mm
- » Weight: 90 grams
- » Extended Temperature Range: -40 to +85 deg C

Approvals and Compliance

» CE

Data

LTE Category 4
 Uplink up to 50 Mbps
 Downlink up to 150 Mbps

Sensitivity

Typical sensitivity levels are as follows:

- » 106 dBm @ 2G
- » 111 dBm @ 3G
- » 101 dBm @ 4G FDD (BW=5 MHz)

Output Power

Typical values for Max output level are as follow:

» 2G (GSM):

LB: Class 4(2W, 33dBm)

Class E2(0.5W,27dBm@EDGE)

HB: Class 1(1W, 30Bm)

Class E2(0.4W, 26dBm@EDGE)

» 3G (WCDMA):

Class 3(0.25W, 24dBm)

» TD-SCDMA:

Class 3(0.13W, 21dBm)

» 4G (FDD & TDD):

Class 3(0.2W, 23dBm@1RB)

GNSS Sensitivity Characteristics

» Standalone or MS Based Tracking:

Typ. -162.3dBm

Acquisition: -157.5dBm

Cold Start: -157.5dBm

» TTFF(Time To First Fix):

Hot: 1.1 secs
Warm: 22.1 secs
Cold: 29.94 secs

Application Resources and Drivers

AppZone C

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

USB Drivers

- » Windows 7/8/10 driver support
- » Linux native support (CDC ACM)

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