



ZETA-NEP-LTEM (GL)

Low Power 4G / LTE Category M / NB IoT Industrial Modem with GPIO



General Description

The ZETA-NEP-LTEM (GL) is a cutting edge, low power industrial modem with general purpose interfaces. It will connect equipment to the new global LTE Cat M and NB IoT networks as they become available, and also provides backwards compatibility to the existing global 2G / GSM cellular network. The modem operates in a low power state thanks to its intelligent power saving design, making it ideal for use in industrial IoT applications today, and for long term future developments.

The ZETA-NEP-LTEM (GL) can also monitor general purpose inputs and drive full specification outputs. Interface options include legacy RS232 for connection to existing equipment, and a high speed USB interface.

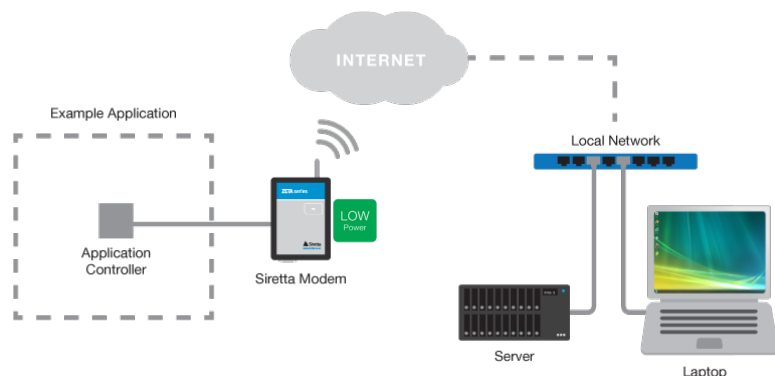
The powerful C development environment reduces redundancy and lowers system component costs, allowing developers to maximise the power of their application directly on the device and eliminating the requirement for an external microcontroller. The ZETA-NEP-LTEM (GL) lends itself to rapid proof-of-concept developments with minimal investment, providing fast time to market and maximum scalability, offering intelligence and decision making at the cloud edge.

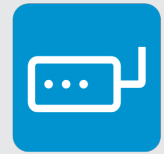
Features

2G GSM	LTE Cat M	LTE NB IoT	GPRS Enabled	GL Coverage	LOW Power				
RS232 Serial	USB Serial	GPIO Interface	RS232 Debug	ADC Interface	EDGE Intelligence				
CODE Embedded	FOTA Update	AT Commands	IP Services	SIM Toolkit	Win Linux/Mac	5-42V Industrial	TEMP -40 to +85	eDRX Low Power	PSM Low Power

Featured Applications

- » Access Control Systems
- » Car Parking Payment
- » Environmental Monitoring
- » Vending Machines
- » Agriculture
- » Tank Monitoring
- » Alarm Panels
- » Industrial Sensors
- » Automatic Meter Reading
- » Utilities





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General Features

- » 13 Bands:
B1(2100), B2(1900), B3(1800), B4(AWS1700), B5(850), B8(900), B12(700), B13(700), B18(800), B19(800), B20(800), B26(850), B28(700)
- » 4 Bands GSM | GPRS:
B2(1900), B3(1800), B5(850), B8(900)
- » LTE UE Category M1/NB1
- » 3GPP release 13 compliant
- » Half Duplex FDD
- » 3GPP Rel. 12 Power Saving Mode (PSM)
- » 3GPP Rel. 13 Discontinuous Reception (eDRX)
- » 3GPP Rel. 13 Extended coverage
- » SIM Application Tool Kit 3GPP TS 51.01
- » Control via AT commands according to 3GPP TS27.005, 27.007 and customized AT commands
- » IPv4/IPv6 stack with TCP and UDP protocol
- » OMA Lightweight M2M (LWM2M)

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 SIM card reader (push-push) 3V, 1.8V
- » 3 x external LED status indicators (Red, Green, Blue)

Includes GPIO (10-way connector)

- » 3 x General Purpose Inputs (0-42V)
- » 2 x General Purpose Outputs (0-42V @1A)
- » 1 x Analogue to Digital Converter ADC (0-42V)
- » 1 x RS232 secondary serial port (3-wire)
- » 1 x PSU Output @ Vcc

Environmental

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

Data

- » LTE Category M1
Uplink up to 375 kbps
Downlink up to 300 kbps
- » LTE Category NB1
Uplink up to 62.5 kbps
Downlink up to 21 kbps
- » EGPRS
Uplink up to 236 kbps
Downlink up to 296kbps

Approvals and Compliance

- » CE
- » FCC

Sensitivity

Output Power

- » All Bands: (LTE) CAT-M1:
Class 3 23dBm (+-2dB)
- » All Bands: (LTE) CAT-NB1:
Class 3 23dBm (+-2 dB)
- » Bands: GSM850, GSM900: GPRS (GMSK):
Class 4 33dBm (+-2 dB)
- » Bands: GSM850, GSM900: EDGE (8PSK):
Class E2 27dBm (+-2 dB)
- » Bands: DCS1800, PCS1900: GPRS (GMSK):
Class 4 30dBm (+-2 dB)
- » Bands: DCS1800, PCS1900: EDGE (8PSK):
Class E2 26dBm (+-2 dB)

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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