



## SL500-LTEM (GL)

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



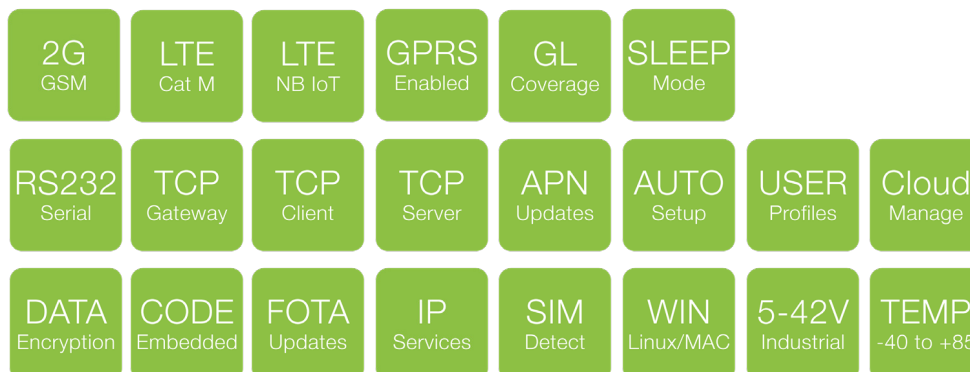
### General Description

The SL500-LTEM (GL) modem is a low power LTE Cat M / LTE NB IoT modem that is used to create a data connection over the LTE cellular network to link a remote application with a server.

The SL500 solution provides an intelligent serial gateway, moving away from the traditional approach of setup and management using AT commands which require a high skill level to implement correctly. Instead, setup and management are all achieved using the modern cloud-based SirettaLINK management portal ([www.siretta-link.com](http://www.siretta-link.com)). This makes deployment and remote management a simple task, saving development costs and accelerating time to market.

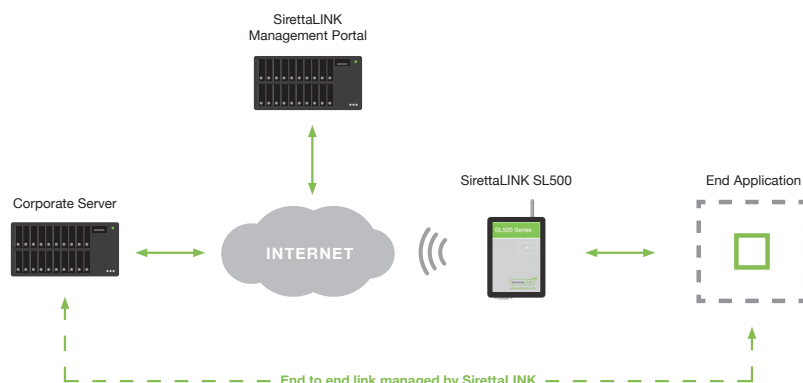
The SL500-LTEM (GL) modem uses an embedded STM32F405 ARM@ Cortex® M4 core processor to implement advanced functionality. This runs an application that connects the SL500-LTEM (GL) modem to the SirettaLINK Management Portal using an encrypted link, where it downloads the configuration profile for connecting to the customers specified resource, and posts operational data.

### Features



### Featured Applications

- » Car Parking Payment
- » Retail Kiosks
- » Security / Fire Alarm Systems
- » Gaming Machines
- » Healthcare
- » Elevator Systems
- » Payment Systems
- » Energy / Water Utilities
- » Fridge / Freezer Monitoring
- » Temperature Audit Trail





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### General Features

- » 13 Bands LTE:  
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) MHz
- » 4 Bands GSM | GPRS:  
B2(1900), B3(1800), B5(850), B8(900) MHz
- » 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

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

### Environmental

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

### Data

- » LTE Category M1  
230.4 kbps upload, 230.4 kbps download\*
- » LTE Category NB1  
62.5 kbps upload, 21 kbps download\*
- » EGPRS  
230.4 kbps upload, 230.4 kbps download (EGPRS)\*

\*Actual rates limited by RS232 I/F and network conditions

### 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)

### Approvals and Compliance

- » CE
- » FCC

### SL500 Application

- » Auto configures device parameters for connected network
- » Advanced techniques to maintain network connection
- » Manages network connectivity to ensure continuous reliable operation
- » Profile settings automatically received from the SirettaLINK Management Portal
- » Periodically pushes operational data of the SL500 system to the SirettaLINK Management Portal
- » Available at [www.siretta-link.com](http://www.siretta-link.com)

### Management Portal

- » Manage entire estate of devices in one central location
- » Perform large scale software updates automatically
- » Real time status reporting and data usage information
- » Ability to export detailed information in XLS reports

### Modes of Operation

- » Client connect mode
- » Client maintain mode
- » Server listen mode