



SL500-LTEM (GL)

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



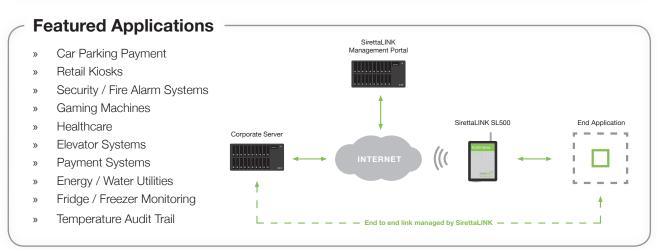
General Description

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). 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.





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SL500-LTEM (GL)

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

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

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

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» Ability to export detailed information in XLS reports

Modes of Operation

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

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