SirettaLINK

Simple Management of Remote Site Equipment

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End to End Link Created and Maintained by Siretta

Traditionally, setup and management of a Siretta modem to an end application not only requires a high skill set to correctly implement AT commands, but will also require dedicated time in development that may not fit with a customers' core business.

Siretta have recognised that not all end users have the time, knowledge or development resources to set up a consistent and reliable connection between a modem and end product, while maintaining the end application.

This is where the concept of SirettaLINK was born. SirettaLINK SL500 modems can be connected to your end application straight 'out-of-the-box'. All modem and application configuration can be done quickly and simply through the cloud based SirettaLINK Management Portal, and the best part is you will have immediate access to configuration settings, application reports and alerts wherever you go.

CONNECT

Game Changing Technology

Siretta's SL500 modem combined with the SirettaLINK Management Portal is a game changing solution allowing you to speed up deployment and simplify remote management. With previous technology, the remote application required intelligence to initiate and maintain an active link.

With the SL500 and SirettaLINK solution, all complications are removed and there is no requirement to:

» **Understand different AT commands for different modems** - *all SL500 modems are easily configured through the Management Portal at the click of a button.*

» **Develop an application to monitor connection link or implement software updates** - *all SL500 modems are easily controlled, monitored and updated through the Management Portal at the click of a button.*

» **Connect to a third party application** - *SirettaLINK supports a fully featured API which can be interfaced to other systems to offer an all in one automated solution*

» **Low power, solar or battery operation** - *All SL500 modems support sleep mode to reduce power to an absolute minimum. This allows the device to sit idle until required whereupon it will immediately reconnect.*

The Benefits:

Reliable Data Flow

Intuituve Portal Control

Manage Anytime Anywhere

Fewer Site Visits

Remote Interaction

Real-Time Data

Low Cost of Ownership

CONFIGURE

The SL500 Modem

The Siretta SL500 solutions are intelligent modems which have been designed to connect remote equipment over a TCP/IP connection to a central location using RS232 serial. Very little knowledge is required to setup and configure the SL500 solution, the unit can be setup to operate ‘out-of-the-box’ and configured remotely via the SirettaLINK management portal.

The SL500 modems use an embedded STM32F405 ARM® Cortex® M4 core processor to implement advanced functionality for the SirettaLINK solution. The processor runs an application that connects the SL500 modem to the SirettaLINK Management Portal using an encrypted link, where it downloads the configuration profile for connecting to the users specified resource and posts operational data.

The SL500 modem has been designed to operate permanently in an ‘ON line’ state, with the option of ‘Sleep Mode’, offering a lower power solution than other connected devices available on the market.

The modem will use higher power in its standard operating state for sending and receiving data but can operate at extremely low power in ‘Sleep Mode’ which can reduce the overall power consumption in some applications by up to 75%.

SL500-LTE1 (EU)
Low Power 4G / LTE Category 1 Intelligent Industrial Modem

2G GSM | 3G UMTS | 4G LTE | LTE Cat 1 | EU Coverage

SL500-LTEM (GL)
Low Power 4G / LTE Category M1 / NB1 Intelligent Industrial Modem

2G GSM | 4G LTE | LTE Cat M | LTE NB IoT | GL Coverage

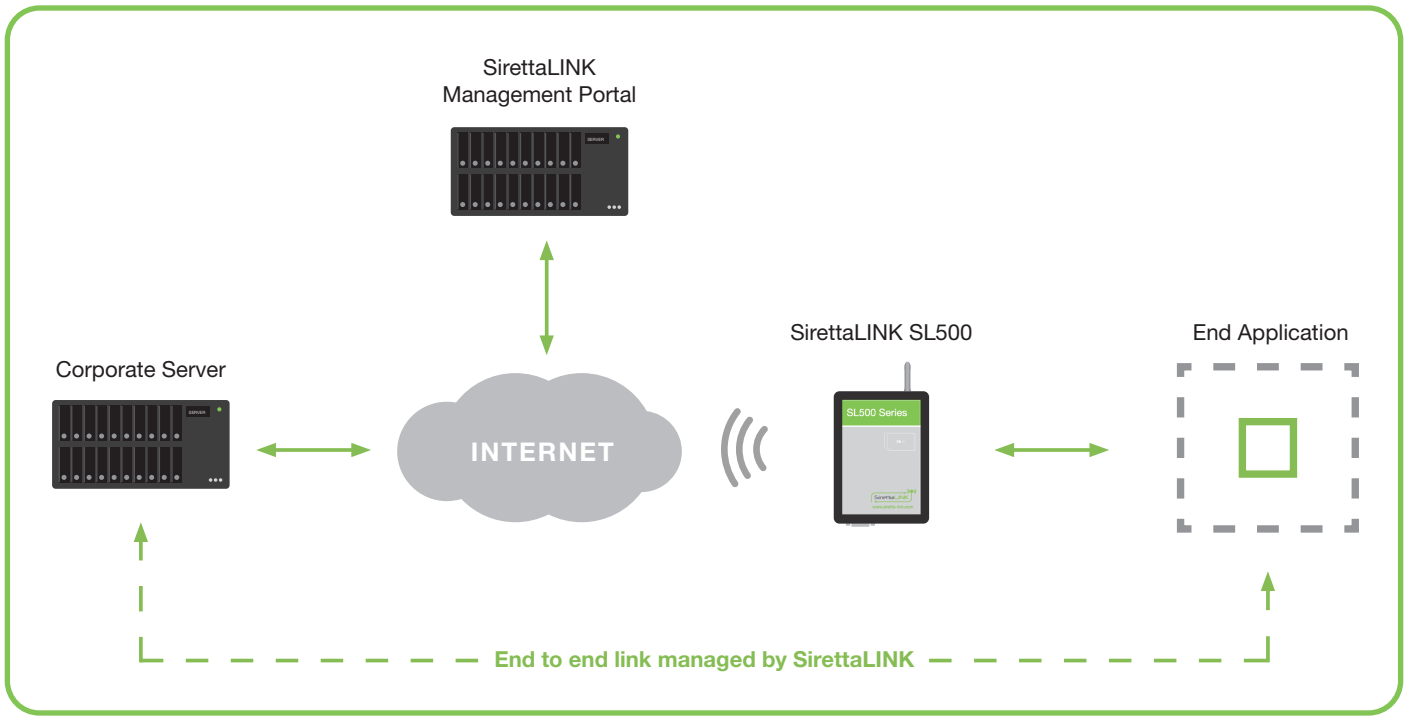
Features application to both models

GPRS Enabled | RS232 Serial | TCP Gateway | TCP Client | TCP Server | APN Updates | AUTO Setup | USER Profiles | Cloud Manage

SLEEP Mode | DATA Encryption | CODE Embedded | FOTA Updates | IP Services | SIM Detect | WIN Linux/MAC | 5-42V Industrial | TEMP -40 to +85

How It Works

Use the SirettaLINK centralised management portal to configure, update, manage and support your remote site equipment - simply.



Centralised device management allows control from anywhere at anytime

The Siretta SL500 solution enables remote access to all of the interfaces in your target application and can enable you to query a host of sensors, processes, power usage and any number of other important parameters.

The SL500 solution detects the cellular network provider and can automatically configure the APN network settings for the connected network eliminating the need to enter any network specific details (only for TCP dial-up client mode).

The primary profile settings required to establish a remote communication channel include the following parameters:

» SIM APN Details

» IP address / Domain of the customer server

» Listening TCP port on the customer server

» Serial parameters (Baud rate, Character framing, Flow Control)

Once these settings are configured the unit will establish and maintain a connection to the server once there is data available to be sent.

In the event of the network dropping a connection, the unit will attempt to reconnect to the server and the software employs a number of techniques to ensure a permanent, robust and reliable connection.

Intelligent Modems + Intuitive Portal =

- Automatic remote location connectivity
- Simple set-up and activation
- No AT Commands required
- Configure your SIM to start interacting

CONTROL

SirettaLINK Applications

The SirettaLINK solution combines an intelligent modem with an intuitive portal, specifically designed to connect remote equipment 'in the cloud' to a central location.

There are currently billions of devices embedded and connected in applications covering Automation, Transportation, Security, Utilities and Low Power environments, to name but a few markets adopting Industrial IoT solutions.

With the rapid and growing implementation of these applications, we increasingly need solutions to connect these devices and to collect, store, and analyse their respective data. Siretta Industrial IoT products, services and solutions facilitate satisfaction of these requirements and have been employed, deployed and operated in multiple market and industry classified sectors.

Fuel Tank Monitoring: The SirettaLINK solution is used in pump automation and distribution control system projects where authorisation to distribute fuel / oil / electricity is required.

SirettaLINK enables remote access to equipment with a robust and reliable connection where device connectivity may be affected by the environments or operating conditions.

Remote Authentication | Payment Authorisation | Credit Card Processing | Delivery Amount | System Performance Statistics | Refuelling Alerts | System Use | Maintenance Alerts | Remote Control of Operating Schedule | Remote Trend Monitoring

Concrete Fabrication: SirettaLINK is used in the manufacturing and curing of concrete slabs to provide precise readings of temperature and offers predictions of compressive strength, providing a cost efficient production process.

SirettaLINK enables the concrete fabrication system to operate wirelessly and integrates seamlessly with the existing plant production line infrastructure.

Monitor Temperature and Strength Development | Alarm Triggers | Enhance Production and Quality | System Performance Statistics | Remote Control of Operating Schedule | Establish Calibration Data | Minimize Carbon Footprint

SirettaLINK Applications

Low Power Solar Monitoring: The SirettaLINK low power intelligent modem solution is used in many applications which require long life on reduced power, such as solar panels or from running on batteries.

Device connectivity can be difficult to facilitate in rural areas due to the infrastructure, therefore using a low power intelligent solution will provide a reliable and stable connection.

Solar Power Farm | Rural Credit Card Processing | Environmental Monitoring | Ocean / Wave Monitoring | Remote Farming Installations | Island Communications | Connected Trailer Installations | Long Term Battery Powered Communication

Electric Vehicle Charging: The SirettaLINK solution is used in electric vehicle charging stations to provide a real time device status which can be used to authorise payments and initiate delivery of energy to a vehicle.

Device connectivity can be affected by the environment and operating conditions, however SirettaLINK provides a reliable and stable connection at all times.

Remote Authentication | Payment Authorisation | Credit Card Processing | Tariff Changes | System Performance Statistics | Low Energy Alerts | System Usage and Maintenance Alerts | Remote Control of Operating Schedule | Trend Monitoring

Door Entry Systems: SirettaLINK is used in remote door entry applications to authenticate users via a pin code entry mechanism or a more advanced system such as fingerprint recognition or Bluetooth phone authentication.

Once a user is authenticated, the system is able to securely grant access to building premises without the need for a manual key exchange or a lock and key entry.

Remote Access to Holiday Homes | Access to Mobile Resources such as Yachts | Remote Access for Cleaners | Update Access Rights in Real Time | Automatically Set Secret Keywords to Further Validate Users | Monitor Usage | Alarm Triggers

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