SECURED NETWORK
CONNECT SAFE

STM3100
TETRA Data Modem

BROCHURE

SYSTEL

STM3100 TETRA DATA MODEM

Is TETRA Data Modem designed to provide secure, real-time control and monitoring of critical infrastructure like street lights, traffic signals, and irrigation systems.

Leveraging the reliability and security of the **TETRA** network, the modem ensures real-time, protected data transmission across multiple communication protocols. It is ideal for transmitting and receiving data for remote monitoring and control of devices that use Serial and Ethernet communication interfaces.

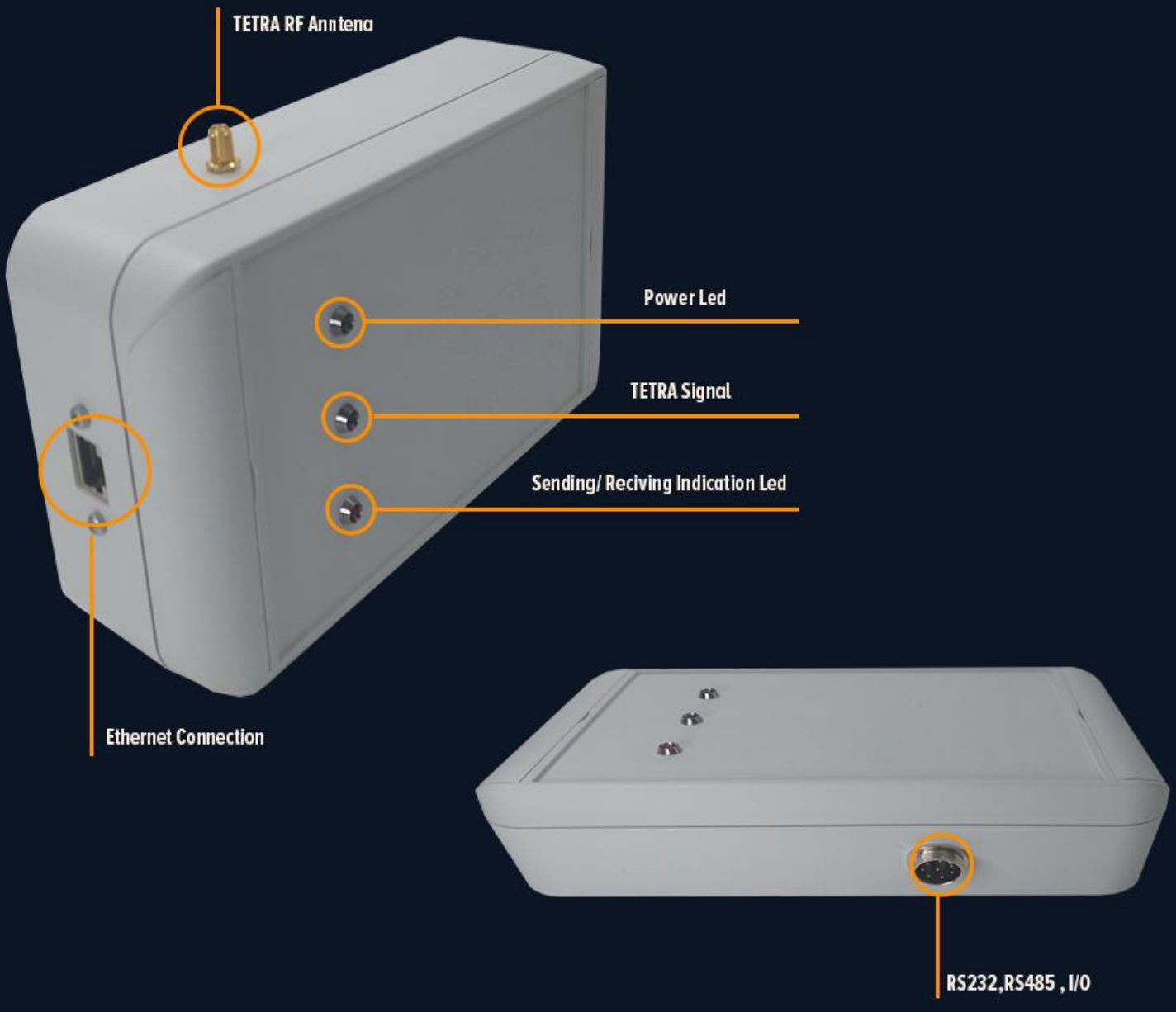
Additionally, the **STM3100** includes multiple digital I/O ports that can be configured for control operations or for detecting and responding to alert events..

Key Features

- End To End Encryption.
- Data interfaces RS232, RS485, CAN Bus, TCP/IP and UDP
- Enhanced 1.8W transmit power
- LED coverage indicator
- Enternal and external RF antenna
- Flashing LED alert
- Lightweight and compact design
- AIE TEA 1, 2, 3 and BSI SIM.
- USB-C connector for programming

Keep Connected Keep Safe

The STM3100 operates over a TETRA trunked network, which is designed to maintain reliable communication during disasters and ensure continuous connectivity


TETRA RF Anntena
Power Led
TETRA Signal
Sending/ Reciving Indication Led
Ethernet Connection
RS232,RS485 , I/O

STM3100 TETRA DATA MODEM SPECIFICATIONS

GENERAL

Requires a 12 V DC 3A / 220 V AC (Optional)

USB-C Connector for configuring

Serial Data Interface RS232 ,RS485

Ethernet Data Interface Supports TCP/IP, UDP

CAN Bus (Optional)

RF SPECIFICATIONS

Bands:380-410 MHz, 400-430 MHz, 440-470 MHz

RF Power: Class 4 (1W) and Class 3L (1.8W)

Adaptive Power Control: Per EN 300 392-2

Receiver Class: A and B

Rx Static Sensitivity:
-114dBm (min); -116dBm (Typical)

Rx Dynamic Sensitivity:
-105 dBm (min); -109 dBm (Typical)

LED Coverage Indicator

DATA SERVICES

SDS Messaging in TMO and DMO

Remote Programming

AT Commands

SECURITY OPTIONS

Enhanced Security - DMO SCK, SCK OTAR, GCK and GCK OTAR

Air Interface Encryption Algorithms5 - TEA1, TEA2, TEA3, CLR