UConnect Edge Module

U2406-Edge

OVERVIEW

The Edge Module is an intelligent device designed to acquire data from Multiple Protocols and transmit it securely to a server via HTTPS. It features an RS232 & RS485 port and can be configured to query these clients, specifying details such as secondary addresses and server information. Configurable settings include the number of clients, communication intervals, timeouts, and polling attempts, all managed through provided software. The terminal polls the devices at set intervals, retries on failures, and successfully sends data to the server using HTTPS.

2* RS485, 2*RS232, 2*DI, 2*DO
2* Ethernet ports, 1*HDMI, 3* USB2.0
Wi-Fi, BLE, LoRaWAN and 4G LTE

FEATURES

- RS232 & RS485 communication with MBUS slaves
- Easy integration with RS232 MBUS Master
- Data acquisition based on configured intervals
- 9-24 V DC input
- 24/7 data transmission available
- Data sent via GPRS 4G
- Connects up to 250 meters in one gateway
- Automatic data pushing without a server
- Light, compact, and easy to deploy
- Selectable logging and update intervals
- Low power consumption
- Long data retention
- Device configuration via SMS
- ABS plastic enclosure with enhanced protection

Technical Specifications for 250 Slave Master:

Description	
Operating Voltage	18V...35V DC
Consumption single slave	1.5 mA
Min / Max-load consumption	3.5W / 30 W
M-Bus voltage (without load)	38V
Max. M-Bus quiescent current:	375mA (250 unit loads)
Overcurrent threshold:	500mA
Transmission speed M-Bus:	300 .. 38.400 baud
Galvanic Isolation to M-Bus:	Yes
Temperature range °C / °F:	-40/+70°C[-40/+158°F]

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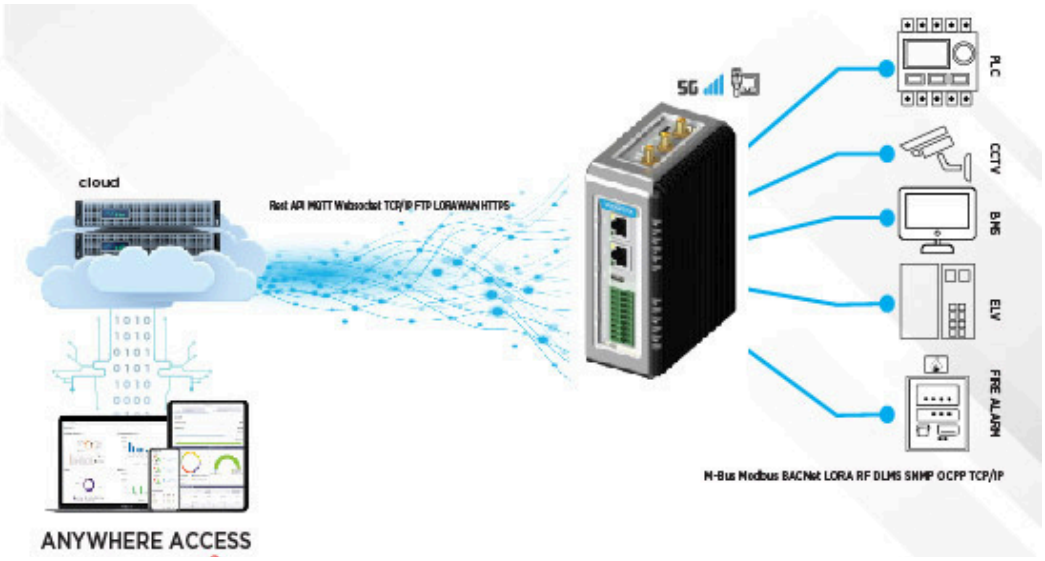
SALIENT FEATURES

- Supports standard protocols like MBUS and also proprietary protocols on RS232 & RS485 ports.
- Monitors serial ports continuously and captures data for processing and communication to servers on desired protocol.
- Periodical or event based communication to servers.

ARCHITECTURAL DRAWING



WORKING PRINCIPLE

- All configurations can be set up using the provided configuration software. Once completed, the terminal will be ready for use.
- The device gathers data from MBUS client devices and transmits it to the server via the HTTPS protocol using a GPRS 4G network.
- The terminal will begin polling all configured devices at the interval specified by the "Communication Interval."
- In the event of a polling failure, the terminal will make additional attempts, with the maximum number of retries limited to the "Number of Poll Attempts" configured.
- Data will be sent to the server using the HTTPS method.
- This process will be repeated for all configured devices
- Remote Monitoring of systems and Operations.
- Remote Data Acquisition for Analysis and control.
- Automatic Meter Reading for Utilities

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