

# MINI RTU by ELSETA



## Features

**Mini RTU** by **ELSETA** is the most versatile modular solution for secondary substation automation for distribution network operators, utility companies, and factories. Designed for a broad range of applications, **ELSETA's Mini RTU** originates from **WCC Lite** combination with optional I/O modules.

**Mini RTU** by **ELSETA** collates up to 2000 signals (together with I/O modules) for direct routing to SCADA systems over IEC 60870-5-101, IEC 60870-5-104, DNP3 or Modbus protocol. Measuring at just 12 x 2 x 10 cm, this compact RTU fits into smaller enclosures and saves DIN rail space, reducing its cost of installation. **Mini RTU** by **ELSETA** communicates with the control center through an integrated 2G/3G/4G(LTE) modem. It also has LAN and WiFi interfaces for easier configuration and access.



The choice of different input/output modules gives you freedom for system extension. The core **WCC Lite** unit communicates with I/O modules through Modbus (RTU) or IEC 60870-5-103 protocol. Adding and configuring each I/O module is almost Plug'n'Play.

## Features

- 1xRS485/232; 1xRS485; 2xEthernet
- WIFI, 2G/3G/4G(LTE) integrated communication
- Optional: 2 SIM card modem
- Internal memory: SD card
- RTC clock and NTP server/client
- Hardware Watchdog
- Alarm management
- User management
- Cyber security according to industry standards
- Syslog event to remote server
- SOE event management
- Web-based configuration
- Detailed information on connected devices
- Network traffic monitoring and filtering
- Plug'n'Play configuration for I/O modules
- Remote Authentication Dial-In User Service (RADIUS)

## Supported protocols

- Modbus master/slave (RTU/TCP)
- M-bus master (Serial/TCP)
- IEC 60870-5-101 master/slave
- IEC 60870-5-103 master
- IEC 60870-5-104 master/slave
- DNP3 master/slave
- Transparent tunnel from TCP to Serial
- MQTT or Restful API as optional

## IOMOD 16DI & 8DI8DO

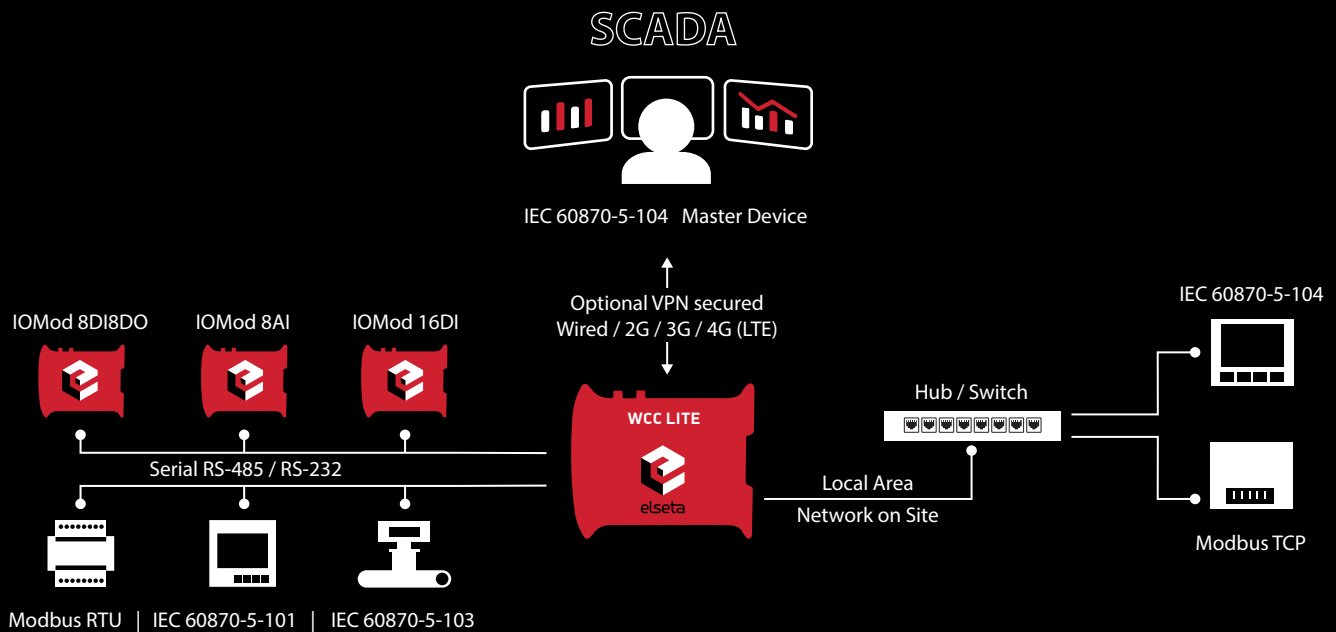
- 16 digital inputs (IOMod 16DI)
- 8 digital inputs/8 digital open collector outputs (IOMod 8DIDO)
- Configurable input signal polarity and inversion
- Galvanically isolated inputs
- Configuration through USB
- Drag'n'Drop firmware upgrade
- Modbus over RS485
- IEC 6080-5-103
- LED indication
- DIN rail mount

## IOMOD 8AI

- 8 analog inputs
- Data measurement in 16bit resolution
- Data scaling and casting
- Configuration through USB
- Drag'n'Drop firmware upgrade
- Modbus over RS485
- IEC 6080-5-103
- Software selectable termination resistor on RS485
- LED indication
- DIN rail mount

## IOMOD 4RTD

- 4 analog inputs
- 4 temperature sensors
- Selectable PT100 or PT1000 temperature RTD sensor (2, 3 or 4 wires) for all channels
- Temperature measurement of 0.5°C accuracy
- Temperature sensing range: from -200 to 800 °C
- Configuration through USB
- Drag'n'Drop firmware upgrade
- Modbus over RS485
- IEC 6080-5-103
- LED indication
- DIN rail mount



**Mini RTU** is an ideal solution for distribution substations and MV switchgears:

- Operating temperature ranges from -40 to +85 °C, enabling **Mini RTU** to work in roughest weather conditions
- One of the highest cyber security levels in the market
- Integrated communications: 2G/3G/4G(LTE), WiFi or LAN interfaces on-board, with optional dual SIM modems for highest reliability
- Easily scalable by combining individual I/O modules via Plug'n'Play
- Long product life-cycle and high investment security

**ELSETA** is a company focused on smart city and smart grid technologies.

We specialize in substation and industrial automation, as well as innovative project development.

**Simplifying complexity** is our key to cutting-edge product development.

More about **ELSETA** products: [www.elseta.com](http://www.elseta.com)

