

WCC LITE

Web gateway for alarm management, data logging, and web-based access



Features

- 1xRS485/232; 1xRS485; 2xEthernet ports
- 1x Digital Input
- WIFI, 2G/3G/4G(LTE) integrated communication
- 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
- Web-based configuration
- Detailed information on connected devices
- Network traffic monitoring and filtering
- Plug'n'Play configuration for I/O modules
- **CloudIndustries.eu** Web-SCADA ready
- Remote Authentication Dial-In User Service (RADIUS)



Application

- Secondary substation and overhead lines automation
- Renewable energy monitoring and power control
- Street light supervision
- Building energy management
- Factory resources supervision

Concept

We created an industrial embedded web gateway for alarm management, data logging, and web-based access. **WCC Lite** is a single-box solution that gives remote web-based access to serial devices over Ethernet or GSM. **WCC Lite** can be used as a small RTU in secondary substations, renewable power sources, and other places with need to collect and deliver data from various field equipment to SCADA, DMS or **CloudIndustries.eu** web SCADA platform. With **WCC Lite** you can:

- Use live data to monitor and manage your installations
- Use the device with cloud-based **CloudIndustries.eu** SCADA system and other **ELSETA** gadgets
- Provide energy analysis, cost profiles, and control processes

Integrated **WCC Lite** protocols:

- Modbus master / slave (RTU / ASCII / TCP)
- M-bus master (Serial/TCP)
- IEC60870-5-101 master / slave
- IEC60870-5-103 master
- IEC60870-5-104 master / slave
- DNP3 master / slave
- IEC 61850
- IEC 62056-31 master
- DLMS
- Transparent tunnel from TCP to Serial
- MQTT or Restful API (optional)

PV inverter specific:

- Aurora
- Delta
- Kaco
- SMA Net
- Ginlong
- Solplus
- DIEHL

Other:

- VBus
- Windlog
- Vestas
- Danfoss ComLynx
- PowerOne dimmer

By choosing **WCC Lite** you are assured of obtaining the most advanced, reliable, and proven technology.

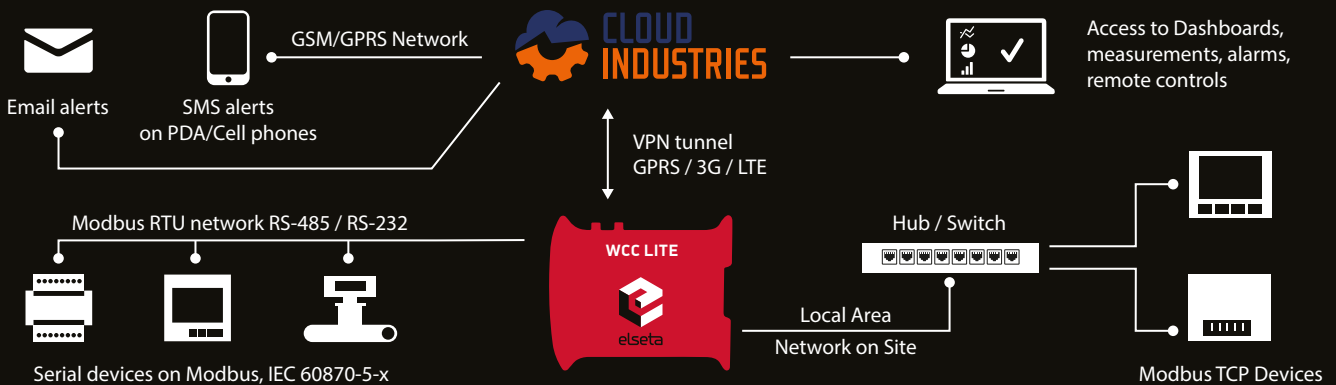
Characteristics

SYSTEM

Processor	AR9331, 400 MHz	Mobile	WiFi, 2G/3G/4G(LTE) integrated communication
System memory	16 MB Flash and 64 MB DDR2 RAM		
External memory	Up to 4 GB		
Ethernet	10/100 Base-T - RJ-45 connectors: 1 x WAN DHCP client 1 x LAN DHCP server	Cyber security	IEEE 1686-2007 WEB SSL support for configuration Firewall DoS, spoofing prevention ICMP, Multicast, VPN filtering IPSec RADIUS
WiFi	802.11 b/g/n, 2.4 GHz, 150Mbps max data rate, 21 dB output power		
Serial ports	1 x RS485/RS232 1 x RS485		
Relay output	1 x 2A (60W max.)		
Antenna ports	2 x SMA: GSM and WiFi		
Digital input	1		

SOFTWARE FUNCTIONS

Compatible with HMI Database	Compatible with CloudIndustries.eu and ANY other cloud-based SCADA system File-based database is implemented inside the device WCC Lite stores all data on SD card when Internet is not available
Data security	All data exchanges between WCC Lite and cloud-based SCADA over an encrypted secure channel
Device maintenance	Using cloud-based CloudIndustries.eu SCADA system it is possible to configure devices and protocols connected to WCC Lite , monitor device-based alarms such as power supply, communication errors, monitor devices connected to SCADA, and much more



Mechanical Characteristics

Operating temperature	-40 ÷ +85°C
Humidity	5 - 95%RH (non-condensing)
Casing	IP20, blend PC/ABS, black
Dimensions	119 (H) x 22.5 (W) x 101 (L), mm
Mounting	DIN rail
Warranty	2 years

Electrical Characteristics

Termination resistor	Integrated 120Ω
Power supply	9-33VDC (full range)
Power consumption	6 W max.

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

