

WCC Lite

mini RTU & gateway



Applications

- Power Grid
- · Solar energy projects
- Wind energy projects
- · Hydro energy projects
- Energy storage applications
- Factory resources supervision
- Substation automation solutions





Ordering

WCC Lite is a single-box device not require any vendorspecific power supply or other components and can work as a standalone device for applications such as protocol converting, mini RTU without I/O's, datalogger, etc. WCC Lite is ideal for retrofit projects – as its small footprint allows to fit it into any existing cabinet, while its wide variety of supported protocols and possibility for converting them to each other gives a perfect fit. Additional DI and relay output allow to send information to the SCADA system about power outages and indicate errors on cabinet doors or to use as a simple single command.

Due to the integrated modem feature, WCC Lite with the smallest in the market footprint allows to switch from existing cabling or radio infrastructure to mobile connectivity. WCC Lite has an ideal set of features to become a networking router for small sites including routing, firewall, and VPN features. The high bandwidth of Ethernet and 4G allows to integrate of video surveillance traffic or IED's remote access for configuration, COMTRADE files, and other needs.

Features

- Protocol converter
- Data logger
- Industrial grade router and Ethernet switch
- Rule-based Firewall
- Mobile connectivity via integrated 4G LTE, 3G modem with dual SIM card support.
- VPN client and server (IPsec and OpenVPN).
- Web-based configuration.
- Remote Authentication Dial-In User Service (RADIUS)
- Cyber security:
 - IEEE 1686-2007
 - WEB SSL support for configuration
 - DoS, spoofing prevention
 - ICMP, Multicast, VPN filtering
 - IPSec
 - RADIUS



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Supported protocols		
IEC 60870	IEC 60870-5-101 Master support IEC 60870-5-101 Slave support IEC 60870-5-103 Master support IEC 60870-5-104 Master support IEC 60870-5-104 Slave support (KEMA Cert.) + IEC 62351 (parts -3) security standard is supported by TLS encryption	
DNP ₃	DNP3.0 TCP(LAN/WAN) Master support DNP3.0 TCP(LAN/WAN) Slave support DNP3.0 Serial Master support DNP3.0 Serial Slave support IEC 62351 (parts 3) security standard is supported by TLS encryption	
Modbus	Modbus RTU Master support Modbus RTU Slave support Modbus ASCII Master support Modbus ASCII Slave support Modbus TCP Master support Modbus TCP Slave support	
IEC 61850-8-1	Client (Master) support of Editions 1, 2, 2.1 - MMS client - Read services - Write services - Static data sets - Report Control blocks - Controls - Discovery Server (Slave) support of Editions 1, 2, 2.1 - MMS server - Read services - Write services - Static data sets - Report Control blocks - Controls - Discovery IEC 62351 (parts -3, -4, -5, and -6) security standard is supported for authentication and TLS encryption	
Meter protocols	M-bus Master support DLMS/COSEM master support IEC 62056-21 master support IEC 62056-31 master support	
Other protocols	MQTT RESTful API	

Operating conditions		
Operating temperature	-40°C 85°C	
Storage temperature	-40°C 85°C	
Relative humidity	max. 95 % (non condensing)	
Protection class	IP20	
Dimensions		
Installation type	DIN Rail mounting	
Case height x width x depth	119 X 22.5 X 101 mm	

Order Codes	
WCCLite v1.4 without modem	WCCLite without integrated modem for mobile connectivity and SIM cards
WCCLITE_v1.4 4G/3G/2G	WCCLite with integrated dual SIM cards slots and 4G modem with dual antenna connectors