

WebRTU® Z2 Residential Gateway

Advanced and off-the-shelf design

The advanced data concentrator WebRTU® Z2 is developed for collecting, storing and transmitting the data of your energy consumption and process parameters. Easy installation, gateway functionality and protocol conversion make the WebRTU® Z2 stand out from the competition. This off-the-shelf product is built around a core feature set and is the perfect solution for remote data collection from isolated endpoints. The device comes in a robust ABS box resisting easily to any industrial environment and features Ethernet connection, two digital inputs, two digital outputs, serial communication interfaces and multiple optional communication modules to fulfill the needs of EnergyICT® customers.

Gateway protocol for remote communication

The gateway functionality of the WebRTU® Z2 enables remote communication on devices that communicate over a serial interface (RS232 or RS485). The gateway works in TCP/IP to Serial Mode or in Modem Pass Through Mode. In both modes the ComServerJ, with a library of over 70 protocols, can control the communication parameters of the serial port.

For utilities and energy service providers

This new data concentrator can be used for applications for all kinds of utilities and energy service providers. Typically, utilities use the WebRTU® Z2 in combination with EnergyICT®'s advanced EIServer® energy management solution. The consumption data logged by the WebRTU® Z2 can be automatically uploaded to the central database using the EIWebp protocol. This flexible system provides utilities with a real-time survey of the metering data. Tele-metering for invoicing and service contracts, quality control and automation of sub-metering are only a few of the elaborate possibilities. Furthermore, implementing the WebRTU® Z2 nearby existing data concentrators or in hard-to-reach environments such as tunnels and basements saves cabling costs.

WEBRTU® Z2



For the commercial and industrial end user

Major commercial and industrial end users can benefit from the WebRTU® Z2 features as well. For the small end user, the WebRTU® Z2 possesses an incorporated Web server that provides the user with a special website on which you can consult the energy data through a simple Web browser — no proprietary software is needed. With the powerful reporting tools of the WebRTU® Z2, a real-time display of your energy use becomes possible. You can also consult and visualize your data in graphics through Microsoft Excel using a simple Web query.

The integration of the WebRTU® Z2 with multiple communication networks allows you to send the gathered consumption data worldwide. In other words, companies can perform benchmarking and compare the data from their different sites, wherever they are located, in real-time and group them.

Variety of communication possibilities

- Standard:

- Ethernet connection for upstream communication.
- Serial communication interfaces RS232, RS485 or current loop and an M-bus master interface.
- 2 digital inputs and 2 digital outputs.

- Optional:

- Fiber input module for communication with EnergyICT®'s ExIO in explosive environments.
- RF modem for communication with EpIO's (EnergyICT®'s endpoint devices) or PSTN modem for dial-in connectivity.
- GSM/GPRS modem for wireless remote meter reading.
- GPS receiver for location based data collection.

Main features

Hardware components	Software components
General: <ul style="list-style-type: none"> • Unique Hardware Key Communication: <ul style="list-style-type: none"> • RS232, RS485 or current loop interface • M-bus interface • Ethernet • optional RF module (868 MHz for EU and 915 MHz for US market) • optional PSTN module • optional GSM/GPRS module • optional GPS module 	General: <ul style="list-style-type: none"> • Remote upload of firmware updates Same firmware platform as the RTU+® V6 Communication: <ul style="list-style-type: none"> • Open HTTP server for configuration • HTTP Server for data retrieval • EIWebp with dynamic encryption with EIServer® • Ability to send and read e-mail for data and logs Certification: <ul style="list-style-type: none"> • EN1000-6-2, EN61000-6-4, • CE and UL approved
Input/Output: <ul style="list-style-type: none"> • Two digital inputs (standard pulse and status) • Two digital outputs • Optical remote pulsed input for use in explosive environments • Real-time clock with battery back-up Power: <ul style="list-style-type: none"> • 115/230 VAC (switched mode power supply) 	Housing: <ul style="list-style-type: none"> • Sealable IP65 on request

Product references

Article Number	Description
ELGR 101009	DL WRTU22 2DI 2DO-RS485 M-bus
ELGR 101010	DL WRTU22 2DI 2DO-RS485 GSM EU M-bus
ELGR 101011	DL WRTU22 2DI 2DO-RS485 GSM US M-bus
ELGR 101012	DL WRTU22 2DI 2DO-RS485 M-bus RF
ELGR 101013	DL WRTU22 2DI 2DO-RS485 GSM EU M-bus RF
ELGR 101014	DL WRTU22 2DI 2DO-RS485 GSM US M-bus RF

Note: for an RS232 or current loop interface, please contact EnergyICT®.



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