



ORDER CODE	COMM. CODE
RHW59	ECR-4G/IO



APPLICATIONS
Industrial/Professional
Remote monitoring
Monitoring
Application development

CERTIFICATIONS
CE Marking
RED
RoHS

PACKAGE CONTENTS
RHW59
Power supply unit
Ethernet Cable
Serial Cable
4G antenna with cable
Wi-Fi antenna
Interface and power connectors
DIN-rail mounting kit

4G routers with advanced features for industrial and Wi-Fi applications

- High-speed 4G module
- 2.4GHz 5.8 GHz Wi-Fi
- 1 x RS232 and 5 x RS485
- VPN support
- ModBUS RTU/TCP support
- MQTT support
- Web-based configuration
- Remote management via Intellienergy RMS
- 2 Digital Inputs, 1 Digital Output, 1 Relay Output
- Secondary SDK Development Kit (Python)
- Integrated 8 GB eMMC memory

RHW59 is an Edge Computing router that utilises a high-performance 32-bit communication processor and provides a Python development environment. This device has 1 RS232, 5 RS485, 4 Fast Ethernet LAN, 1 Fast Ethernet WAN and a Wi-Fi interface (2.4/5.8 GHz), allowing simultaneous connection of serial devices, Ethernet devices and Wi-Fi devices. The 4G and Wireless antennas with SMA connectors are removable to allow the use of different, higher-gain or outdoor antennas. The metal case, the connectors and the interfaces have been carefully designed for maximum flexibility and functionality. In addition to traditional functions, it supports the most popular VPN security protocols and can also send data to MQTT servers. The router is equipped with a digital input and output and a relay output.

The router offers the possibility to develop and use your own applications written in Python language. The router can be fully managed via the Intellienergy Remote Management System (RMS) cloud platform, designed to conveniently monitor and manage Intellienergy Tech routers. RMS lets you securely collect information on the status of devices and change their configuration, even if the devices do not have public IP addresses.

TECHNICAL CHARACTERISTICS

MODULE FREQUENCY	Standard: 4G/3G/2G LTE:B1/B2/B3/B4(66)/B5(18/19/26)/B7/B8/B12(17)/B13/B14/B20/B25/B26/B28/B29/B30/B38/B39/B40/B41/B42/B43/B46/B48/B71
SPEED	LTE cat. 20: 2 Gbps (DL), 150 Mbps (UL)
INTERFACES	4 x 10/100/1000BT LAN ports 1 WAN 10/100/100 BT port 2.4GHz , 5.8 GHz Wi-Fi Standard IEEE802.11b/g/n/ac Security: WEP, WPA, WPA2 Number of ports: 1xRS232, 5xRS-485 (one shared with S232 interface) EDS protection: ±15KV Baud Rate: 2400 to 115200 bps 1 SIM (3V & 1.8V) Serial interface, I/O interface, power connectors
DIGITAL I/O port	<u>Input High Level:</u> 5 - 30 VDC; <u>Input Low Level:</u> 0-3 VDC; <u>Output Load Current:</u> <50mA @ 30 VDC; <u>Relay Load:</u> 1A 250 VAC/30 VDC
ANTENNAS	2xOmnidirectional Quad-band 4G/3G/2G antennas 2xOmnidirectional Wi-Fi antennas
POWER SUPPLY	Input: +9 VDC to 36 VDC / 1.5A min
TEMPERATURE	from -35°C to +75°C
OTHER	Dimensions: 174 x 124 x 40 mm (not including antennas and DIN-rail); Weight: 700 g

