

Wireless Mesh Modbus Extender

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- Modbus RTU extender with sub-1 GHz long range wireless mesh communication (RIIM protocol)
- Long range (outdoor up to 6 km LOS, indoor typically 150-250 meters)
- Mesh functionality multiplies range up to 28x
- DIN rail housing for easy installation
- Connection to both Modbus client and Modbus server (Master/Slave)
- Support up to 32 servers (slaves)
- Connect up to 1000 sub-meters to Energy Manager with MQTT integration
- Support low-latency control for applications such as load control, grid feed-in, EV charging and solar applications
- FCC approved module option for integration

Benefits

- Installation and commissioning in minutes
- Remove hours of cable installations
- Ultra-reliable low latency communication
- Customizable (firmware or hardware)
- Firmware upgrade and setup possible via USB
- Support over-the-air (OTA) firmware upgrades
- State-of-the-art sub-1 GHz wireless mesh protocol





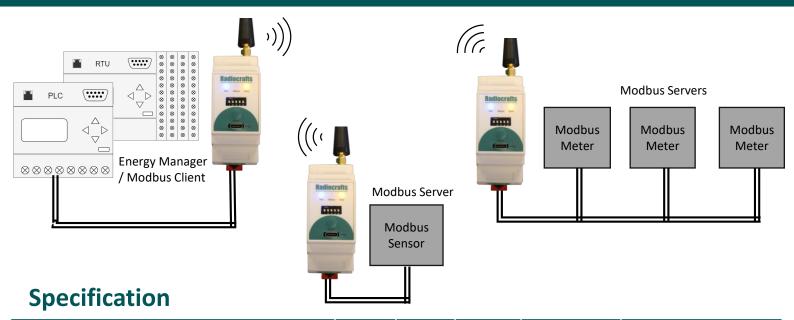
Future options

- Modbus to IPv6/MQTT
- Modbus to IPv6, UDP, CoAP
- Edge intelligence
 - Examples
 - Readout Modbus meter every minute and only report wirelessly with average per hour
 - Readout Modbus sensor every 10 seconds and only report to central unit if above/below threshold

Phone: +47 915 63 357



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Parameter	Min	Тур	Max	Unit	Comment
Power Supply DC	12		24	V	
Power Supply AC		24		V	
Power Consumption			3	W	
Output Power		14 27 27		dBm	RC2028 RC2038HP-915 RC2038HP-868
Range (Line-of-Sight)			1500 6000 6000	meters	RC2028 RC2038HP-915 RC2038HP-868
Range (Indoor)		60 250 250		meters	RC2028 RC2038HP-915 RC2038HP-868
Solid Cable Rating, Connector	0.2		1.5	mm²	
Stranded Cable Rating, Connector	0.2		1.5	mm²	
Conductor Sizes (AWG)	16		24		
IP Class			20		
Dimensions (W x H x D)	35.6 x 93 x 58.7 mm				

Ordering numbers

• RC2038 Operates at both 868 MHz and 915 MHz

• RC2038HP-915 Operates at 915 MHz, Extended range with 500mW output power. US/FCC

RC2038HP-868 Operates at 868 MHz, Extended range with 500mW output power. EU/CE