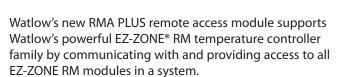


RMA PLUS Remote Access Module

Watlow's New RMA PLUS Remote Access Module Offers Plug and Play Access to Powerful EZ-ZONE® RM Family



EZ-ZONE RMA users have had to spend more time than desired to connect their entire system. Now the RMA PLUS offers standard state-of-the-art connectivity from the device to the entire system. Real-time communication is possible via a built-in Ethernet switch or USB. Users can also connect to third-party and legacy devices because the RMA PLUS acts as a gateway between Modbus® TCP and Modbus® RTU.

The device comes standard with a built-in managed Ethernet switch with two Ethernet jacks. Up to three Modbus® TCP sessions, three Watbus over Ethernet sessions and one Watbus over USB session is available in a single device. Users can also log up to 16 gigabytes of data standard or upgrade to a maximum of 32 gigabytes. Configuration and data logs are available as Windows® files so they can be easily accessed. In addition, discovery and transfer speeds have gone from minutes with the legacy EZ-ZONE RMA to just seconds with the RMA PLUS.

Because the RMA PLUS is an essential component of the EZ-ZONE RM family, users receive all the benefits and support of working with Watlow®.



Features and Benefits

Plug and play access to EZ-ZONE RM family

· Integrates easily into existing systems

Built-in Ethernet switch

- Eliminates the need to provide a switch for small systems
- · Offers port mirroring for troubleshooting
- Protects from broadcast and multicast storms

Integrated USB connection

- Provides easy connection from PC with no converter
- Ensures real-time communication from software packages

EtherNet/IP® Server Option

- Allows users to set up implicit and explicit messaging for reading and writing values and settings
- Connects to programmable logic controllers and other third-party devices

Modbus® TCP and Modbus® RTU

- Allows users to build tables based on individual needs
- Connects to third-party and legacy devices

Data logging

Offers users the opportunity to log any data point in the system

TFTP (Trivial File Transfer Protocol) client

 Automates archiving of data log files with user supplied TFTP server

MQTT (Message Queuing Telemetry Transport) client

- Standard messaging protocol for the Internet of Things (IoT)
- Allows publishing of data to other clients

Customizable default settings

 Loads your RMA PLUS parameter settings whenever the device is reset to factory defaults







Specifications

(Select a RMA PLUS module for communication protocol options, data logging and system configuration) Interoperable with:

- EZ-ZONE RM (C, E, H, L, S) version 9.0+ (inter-module bus)
- EZ-ZONE RM (A, C, E, H, L, S) (Watlow standard bus)
- EZ-ZONE PM, RUI, ST (Watlow standard bus)
- EZ-ZONE RM (F, G, UH, Z)
- POWERGLIDE®
- ASPYRE® AT

Line Voltage/Power

- · Power consumption: 4 W, 9VA
- · Any external power supply used should comply with a Class 2 or SELV rating

Isolated Serial Communications

· All modules ship with standard bus protocol for configuration and communication connection to all **EZ-ZONE** products

Standard Communication

- Standard bus over Ethernet (gateway to inter-module bus)
- Standard bus over USB (gateway to inter-module bus)
- Standard bus via serial ('C' connector)
- Modbus® TCP
- Telnet server for standard IT diagnostics
- DNS (Domain Name Server) client maintains connection in applications with dynamic IP addresses

Additional Communication Options

- EIA 232/485, Modbus® RTU
- EtherNet/IP[™] server

USB

- USB 2.0 device
- Mini USB connector type
- Recognized as a composite device: vendor specific and mass storage classes
- USB host (future option)

Real Time Clock with Battery Backup

- Accuracy (typical): +/- 30 PPM at 77°F (25°C)
- +30/-100 PPM overtemperature operating range
- Battery type and typical lifetime rating: 10 years at 77°F (25°C)
- Lithium battery used, recycle properly

Data Logging

- Maximum of 2000 valid records
- Maximum of 500 unique data points per bus
- File storage on embedded micro SD memory
- Comma separated value (CSV) file type
- Access log files via USB device port

Future

Option

A

Memory Card

- Micro SDHC (4-32GB)
- 4GB class 4 SDHC on standard models (operating temperature: -25 to 85°C)
- 16GB class 10 SDHC on data log models (operating) temperature: -40 to 85°C)
- -4 to 185°F (-20 to 85°C) ambient rating, non-volatile

Note: All module parameters are backed up in memory.

Future

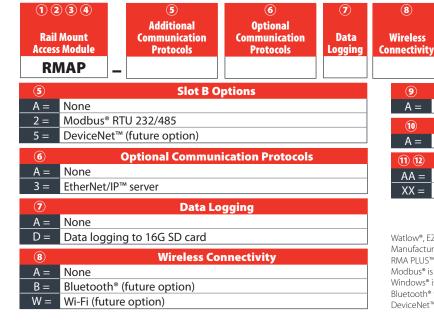
Option

A

Configuration Code

Module for communications, data logging and storage. Comes standard with Modbus® TCP, standard bus over Ethernet, USB device, internal storage and SD card.

Wireless



9	Future Option
A =	Future option
10	Future Option
A =	Future option
11 (12)	Additional Options
AA =	Standard
XX =	Custom/locked code application specific

11 (12)

Additional

Options

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1-800-WATLOW2 • www.watlow.com inquiry@watlow.com

International Technical Sales Offices:

Austria +43 6244 20129 0 China +86 21 3532 8532 France

+33 1 41 32 79 70 Germanv +49 7253 9400 0

India Italy Japan Korea

+91 40 6661 2700 +39 02 458 8841 +81 3 3518 6630 +82 2 2169 2600

Mexico Spain Taiwan IJK

+52 442 256 2200 **Singapore** +65 6773 9488 +34 91 675 1292 +886 7 288 5168 +44 115 964 0777

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