

Using the 515RTAENI Ethernet-to-Serial Converter with RMC75E/150E

Due to the obsolescence of the Allen-Bradley 1761-NET-ENI, the Real Time Automation 515RTAENI is our current recommendation for Ethernet-to-Serial communication. This device can convert serial DF1 to Ethernet, allowing an Ethernet enabled RMC to communicate with a serial device such as older Allen Bradley MicroLogix and SLC PLCs and is generally used with the MSG instruction. The serial device must support DF1.

1. Connect Cables

- a. Connect the RMC to your ethernet switch
- b. Connect the 515RTAENI to your ethernet switch
- c. Connect PC to ethernet switch
- d. Connect power to the 515RTAENI as directed in RTA User Guide

2. Follow the RTA User Guide to set up 515RTAENI

The 515RTAENI includes a browser-based configurator which is covered in their User Guide. Also covered is:

- a. Powering the 515RTAENI
- b. Connecting to the 515RTAENI from a PC
- c. Configuring the ethernet setting for the 515RTAENI
- d. Configuring serial settings for serial device (Baud rate must be manually configured)

3. Set the 515RTAENI IP Settings

- a. Configure the 515RTAENI for a Static IP such as:
 - i. IP Address: **192.168.0.1**
 - ii. Subnet Mask: **255.255.255.0**

4. Configure the RMC IP Settings

- a. In RMCTools, in the Ethernet settings, choose **Use the following IP address** and set it as needed. Example below:
 - i. IP Address: **192.168.0.150**
 - ii. Subnet Mask: **255.255.255.0**
 - iii. Default Gateway: leave this blank

5. Apply the RMC Ethernet settings and update Flash.

6. Configure the 515RTAENI Mapping

- a. Under the Configurable Mapping in the RTA browser-based configurator, enter the RMC IP Address in the respective Node being used by your Serial device (Local Node Address).

7. Connect Serial Cable

Connect a null-modem DB9 cable from the serial device to the DB9 connector on the 515RTAENI cable's DB9 connector. You may need to use gender changers. Null-modem means pins 2 and 3 are crossed over, and pin 5 is straight through.

8. Start Communicating

Communications should start as soon as the serial device starts communicating. The serial device should write to its respective Node.