

## Connect Modbus TCP/IP Server Devices to Serial DF1 PLCs

### FEATURES

- Fully configurable Modbus TCP/IP client
- Connects up to 32 Modbus TCP/IP servers
- Support for PLC5, SLC and MicroLogix PLCs
- Connect up to 32 DF1 serial devices
- Effortless Browser Based Configuration, no programming software is required
- Simple data translation allows you to manipulate data as it passes between protocols
- 5-Year Hardware Warranty

### Connect up to 32 Modbus TCP Server Devices to DF1 Serial PLC5, SLC or MicroLogix PLC

You can now control a network of 32 Modbus TCP servers from a legacy Allen-Bradley serial PLC.

It's the perfect tool to save legacy PLCs from the scrap pile and control Modbus TCP devices directly from the serial port of PLC5s, SLCs and MicroLogix.

### How Do I Use the 460MCDFM-N34 in My Application?

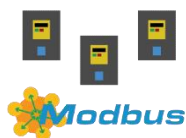
For most applications, the mapping is very straightforward. Modbus register and coil data is mapped to files in the PLCs data tables. For example, you can map N7:200 to Modbus register 40200 in Modbus server 10.

It really is that simple.

### Why Use Real Time Automation as a Gateway Supplier?

While there are certainly other companies offering protocol gateways, there is no one who provides the level of support and service that you receive from RTA.

When you call, a live person answers the phone. When you talk with sales, you will get honest answers and recommendations. When you get support, it is from an engineer who had a hand in the product's development, and support doesn't require a ticket or 24-hour wait.



TCP/IP Servers



460MCDFM-N34

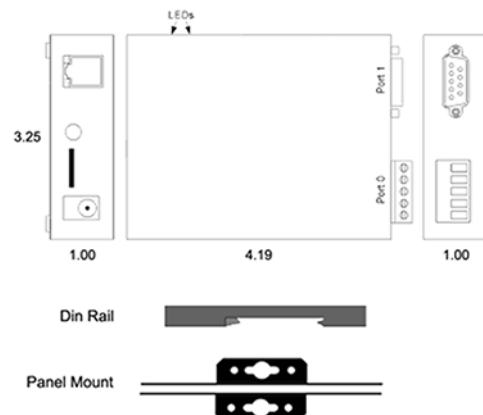


DF1 Slave Devices

**A Solution, A Philosophy, the RTA Way.** We understand the long hours spent on a factory floor and the pressure to keep a line running and product flowing. That's how Real Time Automation came to be. You want easy-to-use solutions where the hardest part is to open the box. You need customer support second to none. If you get all that and a fun customer experience all the better. Thirty years later, our mission remains the same: **To move your data where you need it, when you need it, and how you need it.**

| MODBUS TCP CLIENT FEATURES  |   |
|---|---|
| Operation Mode  | Modbus TCP/IP Client  |
| Function Codes Supported  | 1,2,3,4,5,6, 15 & 16  |
| Swapping  | Byte and Word Swapping  |
| Maximum Modbus TCP/IP Server Devices                                | 32  |
| Number Read/Write Scan Lines per Server Device                      | 200 Total - 100 reads & 100 writes  |
| Scan Line Support   | Up to 125 Registers or 512 Coils  |
| DF1 MASTER FEATURES   |   |
| Operation Mode  | DF1 Master Full Duplex and DF1 Master Half Duplex                             |
| PLCs Supported  | MicroLogix 1000, SLC 5/03 5/04 5/05, most PLC5s                               |
| Maximum number of Devices supported                                 | 1 in Full Duplex Mode, 32 in Half Duplex                                      |
| Data Type Supported   | 100 Integers or 100 Binaries, or 50 floats, 82 character string per Scan line |
| Scan Lines  | 100 input / 100 output  |
| Physical Connections  | RS-485 and RS-232   |
| INCLUDED WITH GATEWAY   |   |
| 3' power cable with flying leads                                    | 5-year hardware warranty  |
| IPSetup software – automatically locates RTA gateway on the network | Unlimited firmware feature upgrades for life                                  |
| CAT5 crossover cable for direct connection to PC during programming | Complete, unlimited access to our industry leading support staff              |
| Optional: Generic 1761-CBL-PM02 Cable                               | Optional: NULL Modem Cable  |

| ELECTRICAL / ENVIRONMENTAL   |  |
|------------------------------|--|
| DC Input Voltage             | 8 VDC @ 230mA to 28 VDC @ 80 mA  |
| Maximum Baud Rate            | 115K baud  |
| Operating Temperature        | -40 C to 85 C  |
| Certification                | RoHS-Compliant, UL, CUL, CE Approvals, Class I Div 2   |
| ENCLOSURE / HARDWARE         |  |
| Size                         | 4.2" x 3.25" x 1"  |
| Weight                       | 7 oz   |
| Enclosure Type               | Anodized Aluminum  |
| Mounting                     | Din rail or panel mount  |
| LEDs                         | Ethernet link/data LED, Ethernet speed LED, power LED, & 2 general purpose LEDs on side  |
| GATEWAY FEATURES & FUNCTIONS |  |
| Alarming                     | Set <, <=, >, >=, !=, and change-of-state rules on any data moving through the gateway. If alarm rule is triggered an email notification can be sent.          |
| Gateway Security             | You can configure up to 9 different users access to diagnostic and configuration screens.  |
| Translation Table            | Allows for data manipulation during protocol translation. Scaling and other data format changes can occur in the gateway.                                      |
| Status and Counters          | Protocol specific status, counters, and error messages are accessible within the gateway's diagnostics page. They can also be delivered to a connected device. |
| Diagnostic Logging Page      | Allows users to see and log start up sequences, protocol specific messages & error messages.   |



**NOT EXACTLY WHAT YOU WERE LOOKING FOR?**  
 Real Time Automation offers a full line of gateway products. Give us a call at 1-800-249-1612. Or, check out a listing at [www.rtautomation.com/products](http://www.rtautomation.com/products). We also offer customizations for unique applications.

| CATALOG #    | DESCRIPTION  |
|--------------|--|
| 460MCDPM-N34 | Connects up to 32 Modbus TCP servers with as many as 32 DF1 slaves |

