

# Model 9113 Ethernet Bridge II

QSL-901A42-R0



The Quartech Model 9113 Ethernet Bridge allows an Allen-Bradley PLC such as the MicroLogix 1100 to monitor and control an Ultra 3000 Servo Drive over an ethernet connection. It connects to the Ultra 3000 CN3 port using a cable provided with the unit and to the PLC via a 10/100 auto sensing ethernet port. The PLC will access the 9113 as though it were another PLC using File/Element addressing. A pre-defined map exists within the 9113 that associates Ultra 3000 Host Command Reference parameters to File/Element numbers. The 9113 can perform scaling that allows your PLC program to work in values such as inches or RPMs.

The 9113 is configured with a static IP address that is the target address used within the message instructions in the PLC program. The IP address and configuration options are set through the ethernet port using our Web Browser Utilities that are available free at the Quartech web site.

## New Feature

The 9113-1-1 also allows Allen-Bradley Ultraware software to access the Ultra 3000 drives over the ethernet network when used in conjunction with the Quartech Ethernet Gateway program. The Gateway program creates a virtual serial port that Ultraware will connect to. Your computer does not need to have an actual serial port. The gateway provides node address to IP address mapping.

## PLC Message Instruction

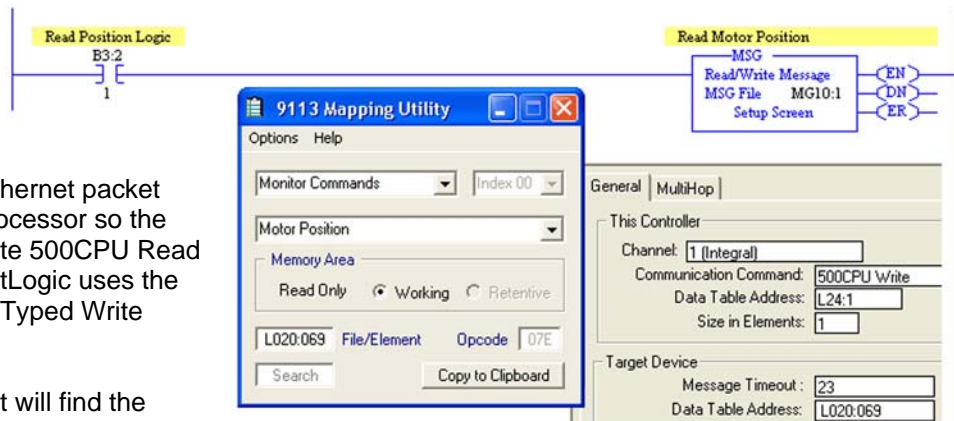
The 9113 allows the PLC to read and write parameters within the Ultra 3000 using the Message Instruction. In the example below the PLC will read the value from L020:069 in the 9113 and place it into L024:001 in the PLC. L020:069 is the mapped address to the Motor Position parameter in the Ultra 3000. File types have been assigned that reflect the parameter data type within the Ultra 3000.

Bit files, Integer files, Long files, and Float files have been used to map Ultra 3000 parameters.

The 9113 uses the same ethernet packet protocol as the SLC 505 processor so the Message setup must indicate 500CPU Read or 500CPU Write. CompactLogic uses the SLC Typed Read and SLC Typed Write

A free utility is available that will find the File/Element number associated with an Ultra 3000 parameter you select.

The utility will run along with RSLogix and will remain on top unless minimized. This allows you to quickly select a parameter, copy the associated File/Element number to the Windows clipboard then paste the number into the Target Device - Data Table Address box within a Message Instruction setup dialog.

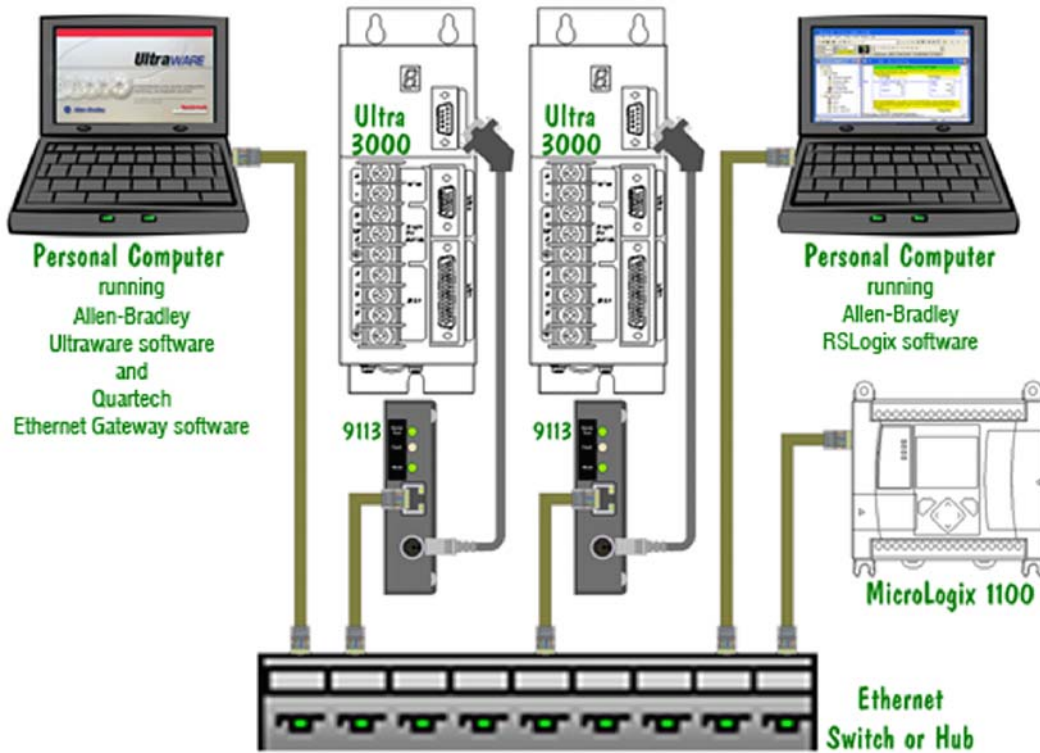


## Quartech Corporation

15923 Angelo Drive, Macomb Township, Michigan, 48042-4050  
Phone 586-781-0373 Fax 586-781-0378 Email Sales@QuartechCorp.com

## Typical Connection Diagram

A PLC can control a single Ultra 3000 drive using a cross over cable between the PLC and 9113. An ethernet switch or hub is required when multiple Ultra 3000 drives are to be controlled.



## Details

The 9113 is enclosed in a rugged steel case with a DIN rail mounting clip that allows easy mounting and dismounting. Twenty four volt source power is provides through a removable terminal block. Five light emitting diodes indicate the operating status of the ethernet and serial ports as well as the fault status .

An internal fault register can be read by and reset by the PLC

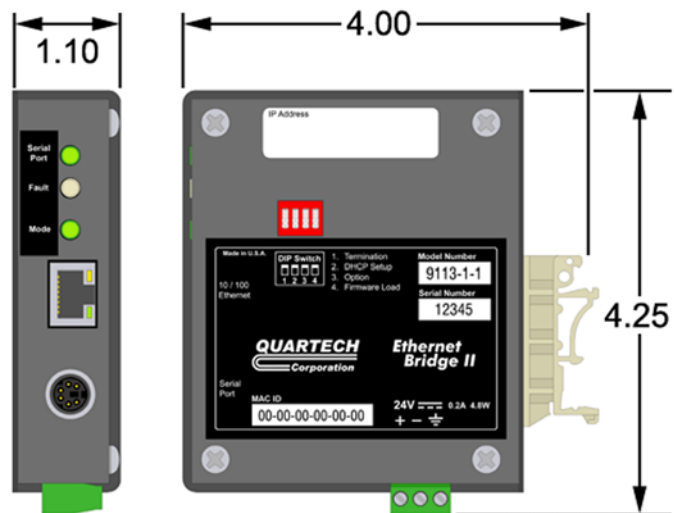
The internal firmware can be field upgraded through the ethernet port.

Requires 24VDC at 200ma  
Mounts to EN50022-35 DIN Rail.

### Part Numbers:

9113-1-0 Ethernet Bridge II  
9113-1-1 Ethernet Bridge II with Ultraware support

The 24 inch serial communication cable between the Ultra 3000 and 9113 is included.



[QuartechCorp.com](http://QuartechCorp.com)

Visit the Quartech web site for product manuals, cable drawings, sample applications, and software.