

9.9 - ETHERNET CARD FIRMWARE UPDATE

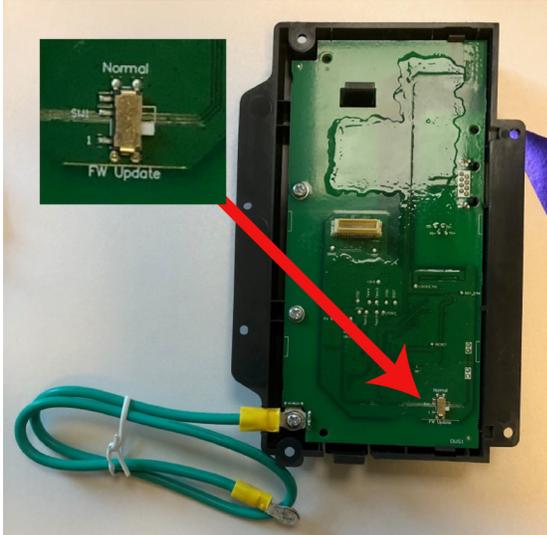


NOTE: This procedure is only for the firmware located inside the Ethernet card. For servo drive firmware updates, SureServo2 Pro software and a SV2-PGM-USB15 (or -USB30) cable are required. See the SureServo2 Pro software help file for more information.

The ModTCP and the EtherNet/IP firmware update process is the same for both cards. The Ethernet cards have web servers built-in that will facilitate upgrading the firmware. An Ethernet cable attached to a PC is all that is required.

To determine if the Ethernet card firmware needs to be updated, compare the Ethernet card firmware version in P3.046 to the latest firmware file at the Ethernet card item page on Automationdirect.com.

Ethernet Card Firmware Update Process

1	<p>To update firmware, first ensure the "FW Update" switch is in the "FW Update" position.</p>  <p>NOTE: The card will only allow firmware updates when the switch is set to "FW Update". The switch must be returned to the "Normal" position after updating for typical servo communication and control.</p>
2	<p>Mount the card to the drive (see the card installation instructions if necessary).</p>
3	<p>Insert one end of an Ethernet cable into the RJ45 connector. Insert the other end into a switch or controller.</p>
4	<p>Turn on power to the drive. The POWER light should turn solid (no blinking). The LINK/ACT should turn on and blink several times while establishing connection to the switch or controller. This indicates the card is negotiating a connection.</p> <p>NOTE: If the LINK/ACT light turns on solid when first powered up, cycle power to the switch. If the LINK/ACT light still does not blink after powering up the switch, unplug and replug the controller (PLC, etc.) from the switch. If the card's LINK/ACT light still does not blink this may indicate that the switch in use is an older model that may not work with the drive. Replace the switch or run the ethernet cable from the card directly to the controller. The card will automatically negotiate the direct connection, so a cross-over cable is not needed.</p>

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Ethernet Card Firmware Update Process, continued																	
5	<p>Set your PC IP address to 192.168.1.xxx where xxx is a number of your choice excepting "3" (the communication card is hard-coded to 192.168.1.3).</p> <p>If you don't know how to manually set your PC's IP address, follow the steps below:</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th colspan="2">Manually Setting PC IP Address</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>In your PC's search box, type "Network Status" and click on the Network Status app.</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Select "Change Adapter Options".</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Double-click on the hard-wired ethernet connection to the servo.</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Select "Properties".</td> </tr> <tr> <td style="text-align: center;">5</td> <td>Double-click on "Internet Protocol Version 4 (TCP/IPv4)".</td> </tr> <tr> <td style="text-align: center;">6</td> <td>Make sure "Use the Following IP Address" is selected, then enter 192.168.1.xxx where xxx is a number of your choice other than 3. Enter 255.255.255.0 for the subnet mask.</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Click "Ok".</td> </tr> </tbody> </table>	Manually Setting PC IP Address		1	In your PC's search box, type "Network Status" and click on the Network Status app.	2	Select "Change Adapter Options".	3	Double-click on the hard-wired ethernet connection to the servo.	4	Select "Properties".	5	Double-click on "Internet Protocol Version 4 (TCP/IPv4)".	6	Make sure "Use the Following IP Address" is selected, then enter 192.168.1.xxx where xxx is a number of your choice other than 3. Enter 255.255.255.0 for the subnet mask.	7	Click "Ok".
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6	<p>Using your web browser, go to http://192.168.1.3. This is the hard-coded address for the communication card when the "FW Update" switch is toggled on.</p> <p>The communication card web server should display. If it does not, try connecting to the card with a direct ethernet connection from your PC to your card (don't use a switch or hub). A standard ethernet cable will work (cross-over cable is not required).</p>																
7	Press "Choose File" and select the appropriate file for your card (*.web).																
8	Press "Update". After a few seconds, the Update Status should change to "Firmware Update Success".																
9	Once the update is complete, remove power from the drive, then remove the ethernet cable and uninstall the ethernet card.																
10	Slide the "SW Update" switch on the card to the "Normal" position. The card will NOT communicate with other devices unless the switch is set correctly.																
11	Re-install the communication card and reconnect the ethernet cable.																
12	Apply power to the drive and ensure that the "Power" light is solid. Ensure that the LINK/ACT light blinks several times after the drive has powered up. See Step 4 if the card doesn't establish communications.																

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