Micro Control Systems
APPLICATION NOTE
APP-079

CONNECTING MCS-CONNECT VIA ETHERNET

Revision History

Date	Author	Description
07/12/12	Michael Schreiber	Created application note

Equipment Needed:

1. **PC**
2. **Straight Ethernet Cable for a Building Network or Crossover Ethernet Cable for PC to Magnum.**

● For Microsoft Windows 7:

1. At your desktop, left click on **Start** ball.
2. Left click on **Control Panel** button.
3. Double left click on **Network and Sharing Center** icon.
4. Left click **Change Adapter Settings** on the left side of the screen.
5. Right click the connection that you want to change (Local Area Connection) and select **Properties** from the dropdown menu.
6. Under **This connection uses the following items**, left click Internet Protocol Version 4 (TCP/IPv4).
7. Left click on **Properties** tab.
8. Select **Obtain an IP address automatically** if using a Straight ETHERNET Cable for a Building Network.
   Select **Use the following IP address** if using a Crossover ETHERNET Cable for PC to MCS-MAGNUM:
   a. The first three numbers of the IP address should match exactly what's on the Magnum and the last number must be different.
   b. The subnet mask and the Default Gateway should match the exact values on the magnum.

   Example of Magnum IP Settings
   1. IP Address 192.168.1.254
   2. Default Subnet Mask 255.255.255.0
   3. Default Gateway 192.168.1.1

9. Close all Windows.
10. Double left click on **MCS-Connect** icon on desktop. If **MCS-Connect** icon isn't on desktop, left click **Start** ball on desktop. Left click **MCS-Connect** on Start Menu.
11. Left click on **Setup** tab.
12. Left click on **Options** tab.
13. Under **Network** tab, select the **Available Network Interface**, and select **Local** as the connection type.
14. Left click on **Save** button.
15. Left click on **OK** button.
16. Left click on **Local Ethernet** button to scan for microprocessor when connected.
17. If this does not find the microprocessor, click on disconnect and click IP(Internet). Enter the IP address of the Magnum and click Remote/Connect.

● For Microsoft XP:

1. At your desktop, left click on **Start** button.
2. Left click on **Control Panel** button.
3. Double left click on **Network Connections** icon in Classic view. If you are in Category view, you can switch over to Classic view by left-clicking on **Switch to Classic View** on the left side of the Control Panel window.
4. Right click the connection you want to configure (Local Area Connection) and select **Properties** from the dropdown menu.
5. Left click on **General** tab.

6. Use scroll bar and left click on **Internet Protocol** (TCP/IP).
7. Left click on **Properties** tab.
8. Select **Obtain an IP address automatically** if using a Straight ETHERNET Cable for a Building Network. Select **Use the following IP address** if using a Crossover ETHERNET Cable for PC to MCS-MAGNUM:
    a. The first three numbers of the IP address should match exactly what's on the Magnum and the last number must be different.
    b. The subnet mask and the Default Gateway should match the exact values on the magnum.

    Example of Magnum IP Settings
    1. IP Address 192.168.1.254
    2. Default Subnet Mask 255.255.255.0
    3. Default Gateway 192.168.1.1

9. Double left click on **MCS-Connect** icon on desktop. If **MCS-Connect** icon isn't on desktop, left click **Start** button on desktop. Left click **MCS-Connect** on Start Menu.
10. Left click on **Setup** tab.
11. Left click on **Options** tab.
12. Under **Network** tab, select the **Available Network Interface**, and select **Local** as the connection type.
13. Left click on **Save** button.
14. Left click on **OK** button.
15. Left click on **Local-Ethernet** button to scan for microprocessor when connected.
16. If this does not find the microprocessor, click on disconnect and click IP(Internet). Enter the IP address of the Magnum and click Remote/Connect.