MICRO CONTROL SYSTEMS

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MCS-WIRELESS-MODEM-INT

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MCS-WIRELESS-MODEM-INT

User
Installation

MCS Total Solution for all your Control Needs

RoHS Compliant ✔

Energy Efficient and RoHS Compliant

Contractor (User) Install

SIM Card Installation (NOT INCLUDED)

1. Open the SIM cover
2. Insert the Standard SIM into the SIM card slot.
3. When removing Standard Sim card, the user just presses Standard Sim card in the card slot again and the card will be ejected out.
4. When the device is powered on the 3G LED blinks 3 times in succession (every 1-3 seconds) to confirm that there is an actual data connection to the provider. If there is a connection to a provider, but the data is not working (note that this doesn't apply to situations where the carrier actually offers a webpage saying data is not enabled), then the 3G LED will remain off.

Note : MCS-WIRELESS-MODEM-INT DX2100 does not support automatic SIM card hot-swapping and MCS-WIRELESS-MODEM-INT DX2100 must power off for SIM card to be recognized.

Wall Mount Installation

1. Find a suitable location.
2. Insert screws into the screw holes on the sides. Use a screwdriver to tighten the screws and secure the installation.
3. Connect and tighten the SMA antenna onto the device. For a better 3G signal strength, take the actual environmental condition into consideration when finding a mounting location for the device.

   IMPORTANT: IF UNIT IS MOUNTED INSIDE AN ENCLOSURE, ANTENNA MUST BE MOUNTED OUTSIDE OF THE ENCLOSURE.

   Note: Do not over-tighten the screws or the wall mount screw hole may be deformed.

Power Inputs

1. Plug the supplied power supply into the power port on the **MCS-WIRELESS-MODEM-INT DX2100.**
2. Connect power supply plug into power source.
3. After turning on the MCS-WIRELESS-MODEM-INT DX2100 will make a buzz and the Ready LED on the front panel will light.

1. Install the DIACom software on a computer which is running **MCS-CONNECT**.
2. The software is provided on a USB flash drive in your package. (The DIAcom software can also be found at: http://mcscontrols.com/communications.html#MCS-WIRELESS-MODEM-INT
3. Start the DIACom software
4. **LOGIN USING YOUR EMAIL ADDRESS**
5. **A USER ACCOUNT WAS SETUP FOR YOU AND A PASSWORD WAS SENT TO THAT EMAIL ADDRESS.**

1. Next screen shows Secure Tunnel Account on left and what Bound Account is showing.

Secure Tunnel Name

2. There are two different ways to perform the Secure Tunnel:

    a. DHCP - Default, Obtain an IP address from Cloud automatically when Cloud DHCP function is available.

    b. Static - Manually set the IP address, the IP should be in the same subnet with DX device

Note: If you enter an IP address that is used on your network a message will appear.

7. Using the DHCP default the following IP address has been assigned.

8. Next click **'Create Tunnel'** to establish the Secure Tunnel for the computer .
Below screen shows account is now bound to the MCS-MAGNUM at IP address as shown in photo. Note that the screen went from red **Create Tunnel** to blue **'Disconnect'**, **also at bottom an IP address shows.**
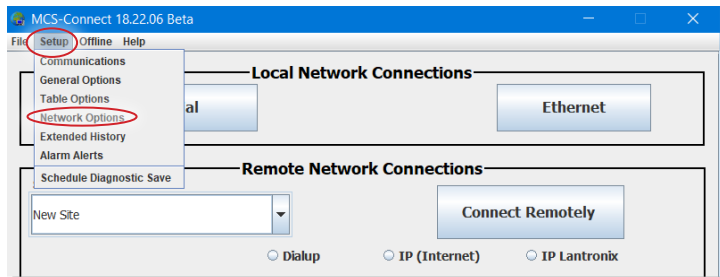

DO NOT START MCS-CONNECT UNTIL YOU HAVE
CREATED THE SECURE TUNNEL

IMPORTANT
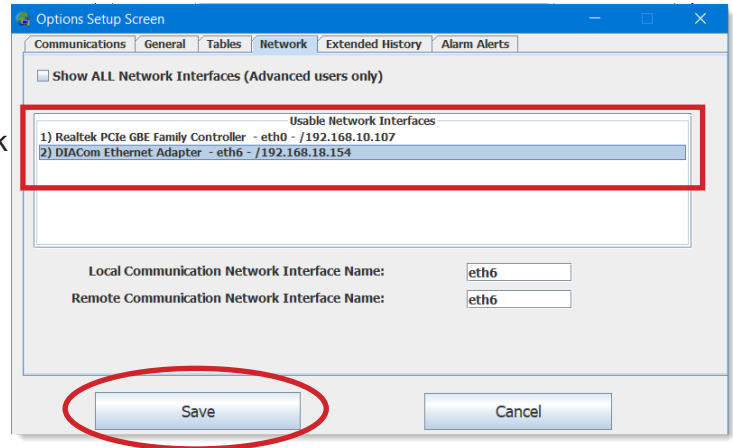
9. Start MCS-CONNECT

    a. Click on **'Setup'**

    b. Click on **'Network'**
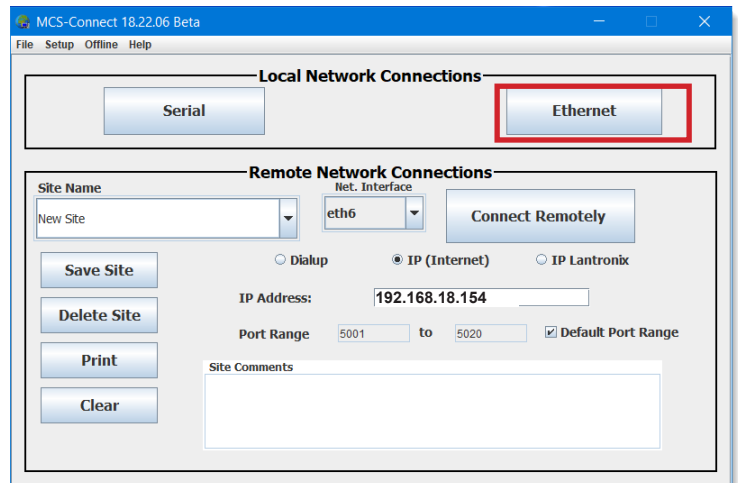
10. Next screen shows network adapters available:

    Example shows 2) DIACom Ethernet Adapter - eth6

11. Click on '**2) DIACom Ethernet Adapter'** and click
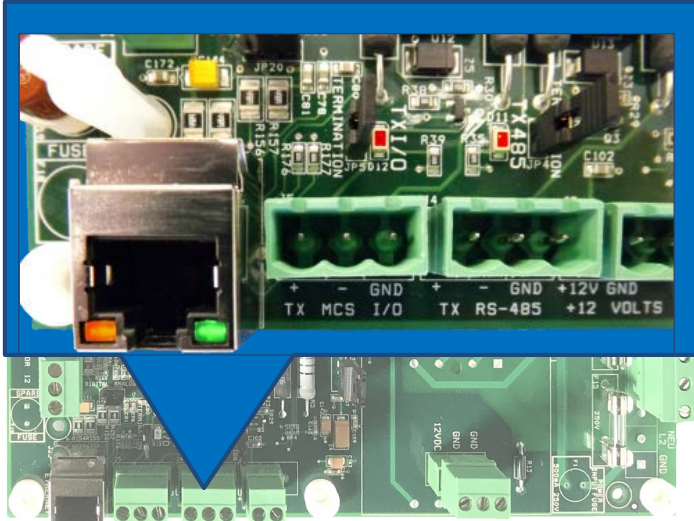
MCS-CONNECT - MAIN SCREEN

1. Under **'Local Network Connections'**

2. Click on **'Ethernet'**

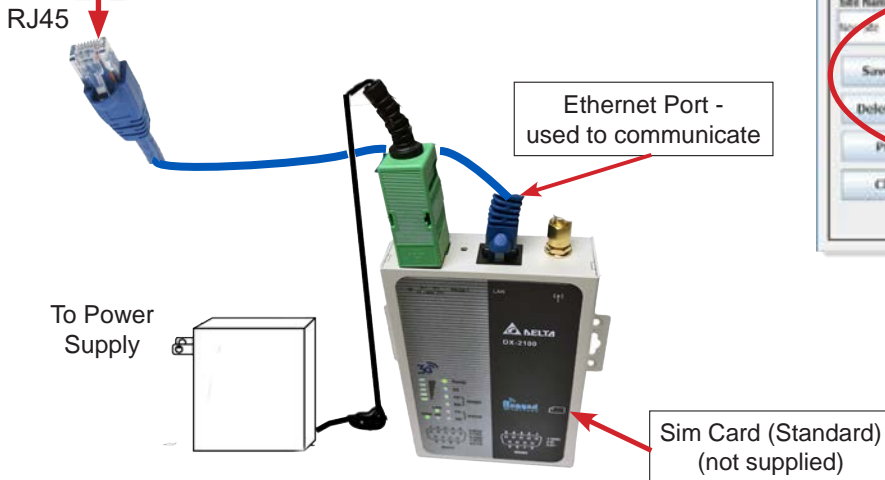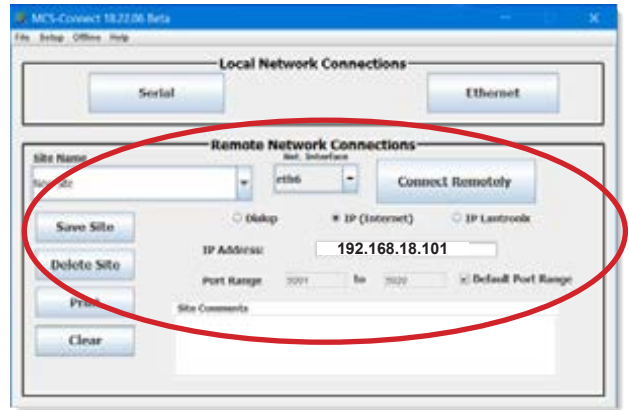3. MCS will search for connected Magnum(s)

MCS-WIRELESS-MODEM-INT WIRING INSTRUCTIONS
<u>ETHERNET COMMUNICATION PORT</u>

Example MAGNUM #1 address
Static IP: 192.168.18.101
Subnet mask: 255.255.255.0
Default Gateway: 191.168.18.1
TCP/IP Port: 5001

MCS-CONNECT setup to access job site

RJ45

Ethernet Port - used to communicate

To Power Supply

Sim Card (Standard) (not supplied)

Connect to multiple MAGNUMS using an Ethernet hub and DYNAMIC IP, see below to setup.
(Each MAGNUM must have a unique address.)

IMPORTANT

To setup using DYNAMIC IP, open MCS-CONNECT;
1. Click the tab for **'SETUP'**
2. Click 'NETWORK'
3. Click on 'SHOW ALL NETWORK INTERFACES'
4. Click on 'DIACom Ethernet Adapter'
5. Save
6. Click 'ETHERNET', a unique DYNAMIC IP address will be assigned.

MAGNUM #1   MAGNUM #2