Application Note AN_T004:

Browsing a Controller
Not connected to a LAN

1. Overview

'Crossover' cables are used to browse the controller when the controller is not connected to the site Ethernet LAN. They are widely available. Comp USA is atypical vendor.

If the controller were connected to the site LAN, you'd browse it from one of the PCs on the LAN.

Connecting to a controller using a 'crossover' cable requires that the notebook and the controller be on the same subnet. This application note details set-up verification.

2. NETMASK & IP - Internet Protocol Addresses

Assuming that the controller NETMASK is the default 255.255.255.0.
The first three numbers of the controller and the notebook IP addresses must be the same.

For example; if the controller IP = 10.10.6.106 (default) the notebook IP could be 10.10.6.100.
If any of the first three numbers don't match, you won't be able to use a crossover cable to browse the controller.

3. Finding & Editing the controller's IP

Key ENTER at **System:** (Today's Date)
Key DOWN to **LAN Setup** & key ENTER.
Displays the default controller IP = 10.10.6.106

If you wish to edit the controller IP, Key ENTER.
Warning:
Do not change the IP, Netmask or Gateway of any controller connected to a local LAN.
The system administrator will have assigned these numbers.

4. Verify the controller's Browser Port#

Key ENTER at **System:** (Today's Date)
Key DOWN to **LAN Setup** & key ENTER.
Key DOWN to Browser-HTML Port.

If the Port = 80 (default), ignore. It's also your browser's default Port#.
If not 80, note the Port#, you'll need to add it to your IP. Refer to step 6.

5. Finding your Notebook's IP

WINDOWS XP ***(XP users see Section 7 for an alternative method)***
Select **Start -> Control Panel -> Network Connections -> NetworkBridge OR Local Area Connection**

Double click: **NetworkBridge OR Local Area Connection**
Select: **General -> Properties -> Internet Protocol (TCP-IP) -> Properties -> Alternate Configuration**
Check: **User Configured**

Assuming that the **User Configured** fields are blank. Set the IP address = **10.10.6.100,** assuming that the controller IP address (See Section 3.) is **10.10.6.106.** Set the Subnet mask **= 255.255.255.0** & select **OK.**

Any pair of Notebook & Controller IPs will work if:
1. The first three numbers are the same
2. The last numbers are never '0' or '255'

WINDOWS 98 & ME
Select: **Start -> Settings -> Control Panel -> Network**

You may have several options under **Network**, Select the **TCP-IP** option which is NOT dial-up. & then select IP Address (This tab is usually the default)

Option 1. *'Obtain an IP Address Automatically'* **is Checked**
If you connect your notebook to your company's LAN, you'll likely have *'Obtain an IP Address Automatically'* checked. Select '*Specify an IP Address'* , set the IP Address to 10.10.6.100 and Subnet Mask to 255.255.255.0.
Select OK, Your notebook may restart.
Note: Once you have finished browsing the controller, check *'Obtain an IP Address Automatically'* so you can log back into your corporate LAN.

Option 2. 'Specify an IP Address' **is Checked**
Use the controller keypad (See Section 3.) to set the controller the IP where the first 3 numbers match the notebook IP and the third number is any number but '0' or '255'
For example: If you notebook is 12.135.120.58, make the controller 12.135.120.68

Warning:
Do not change the IP, Netmask or Gateway of any controller connected to a local LAN. The system administrator will have assigned these numbers.

6. Browsing the Controller

1. Connect a crossover cable to your notebook's RJ45 Ethernet network jack and the controller's RJ45 network jack located in the center, front of the top controller circuit board.

2. The green **LNK**, link light will turn ON beside the controller jack, indicating you have a connection.

3. Double click on the Internet Explorer desktop icon and enter 10.10.6.106, or the current controller IP in the browser **Address** line & key ENTER.

4. If your controller's Browser-HTML Port is NOT 80, add **:Port#** to the IP. For example, if the controller Browser-HTML Port = 5080, the browser Address line would be 10.10.6.106:5080.

5. The yellow **ACT**, active light on the controller will flicker as the controller serves the VIEW home page.

6. If the yellow ACT light does not turn ON, there is an error in setup, IP address or port#.
   If the green **LNK** light is not ON, it's likely that you are not using a crossover cable.

7 . XP Alternative: Finding your Notebook's IP

Select **START** then **Control Panel** then double click **Network Connections**

Under **LAN or High- Speed Internet** and right click on **Local Area Connection** & select **Properties**

Under the **General** tab, Scroll down in the *This Connection uses the following items* until you select and highlight **Internet Protocol(TCP/IP)**

Then key the ***Properties*** button.

Verify that *Obtain an IP Address Automatically* is unchecked and *Use the following IP address* is checked.

Verify the **Subnet Mask** is **255.255.255.0**.

Option 1: Modify your notebook IP for this session.

Write down your notebook's current **IP** & **Default Gateway** addresses

Edit the **IP** address to read **10.10.6.100** and the **Default Gateway** to read **10.10.6.1** and key the ***OK*** button

Key the **OK** button in Local Area Connection Properties window.

When you are finished browsing the controller. Restore the **IP** and **Default Gateway** addresses to their original values.

Option 2: Modify the controller for connection to your notebook or PC.

Write down your notebook's or PC's current **IP** & **Default Gateway** address

Using the controller keypad, key **ENTER** at the System or Power-up display and then key down to LAN Setup. Key enter to edit the IP Address and Gateway to match your PC or notebook.