B

Appendix B
Using the H2 Series EBC with Think & Do

In This Appendix. . . .

Configuring the DL205 I/O Base

The H2 Series EBCs and DL205 I/O are self-configuring. The EBC reads the module and identities it on powerup. Within the Think & Do I/O View tool, the DL205 I/O modules are graphically displayed as soon as a connection is established between your PC and your EBC.

For additional information about establishing a connection between your PC and the H2 Series EBCs, please see the ***Think & Do Software Learning Guide***.

Mapping H2-EBC I/O Points

We recommend that you be familiar with "Getting Started" and "Creating a Project" chapters in the ***Think & Do Studio Learning Guide*** before attempting to map the EBC I/O points/channels to Data Items using ConnectivityCenter.

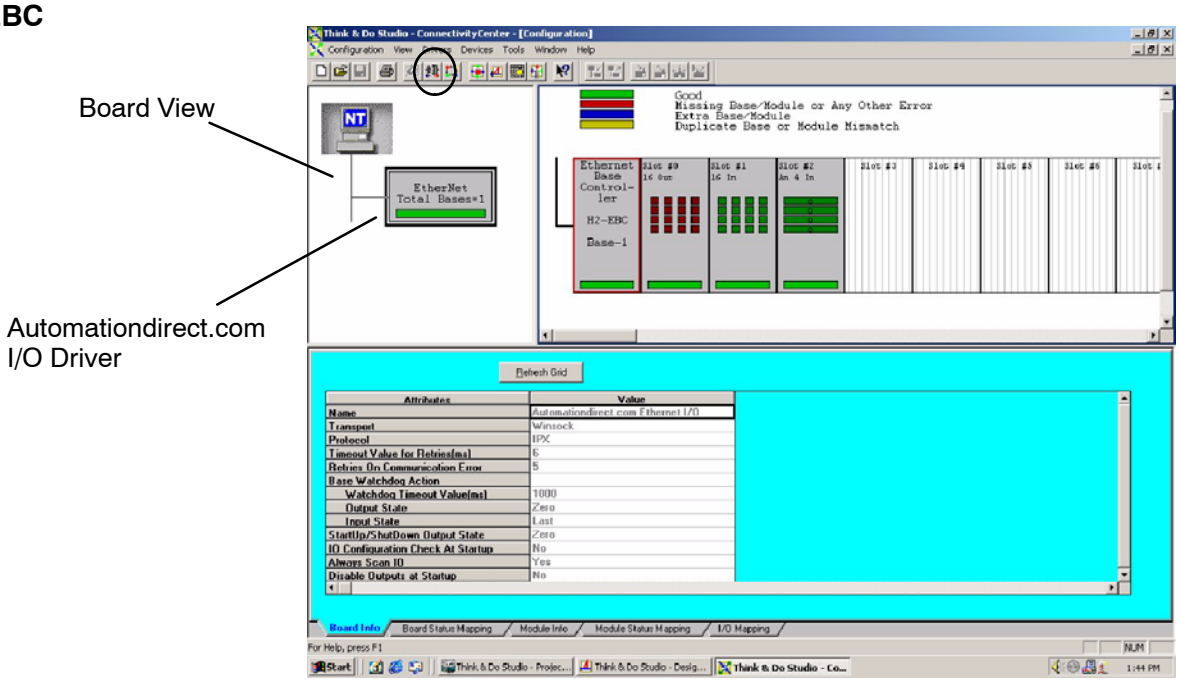
Launching Connectivity Center Tool

To launch ConnectivityCenter:

1) Launch Think & Do Studio ProjectCenter from the Windows desktop by either clicking on **Start**, then **Programs**, next **Think & Do Studio**, finally **ProjectCenter** or click on the **ProjectCenter** icon to start.
2) Click on the File Menu and either open your Think & Do Project or select New.
3) Within ProjectCenter select Windows 2000 or NT Certified PC as the Runtime Target.
4) Then either click **Tools**, then **ConnectivityCenter** to launch the ConnectivityCenter or click on the ConnectivityCenter shortcut in the Project Explorer.
5) Once in ConnectivityCenter click on **Drivers**, then **Add** and select **Automationdirect.com Ethernet I/O Driver**.
5)Then either click on **Configuration**, then **Connect** or click on the Connect toolbar button.

Connecting to the EBC

ConnectivityCenter will draw a picture of your EBC I/O system.

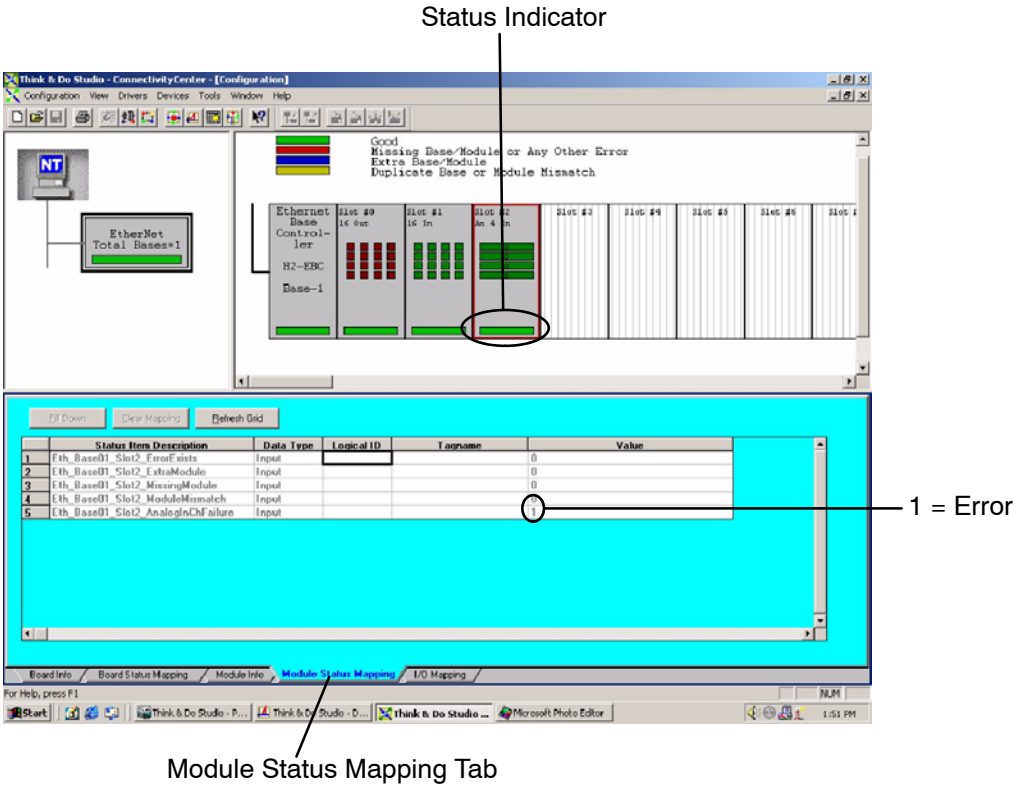


Mapping I/O Points to Data Items

This procedure is discussed in detail in the "Creating a Project" chapter in the ***Think & Do Studio Learning Guide***. This will map your real world I/O to Data Items.

I/O Module Status Word / Bits

I/O Module diagnostic information is listed for each I/O module under the Module Status Mapping tab. Click on a module graphic to display its Status Item Descriptions.

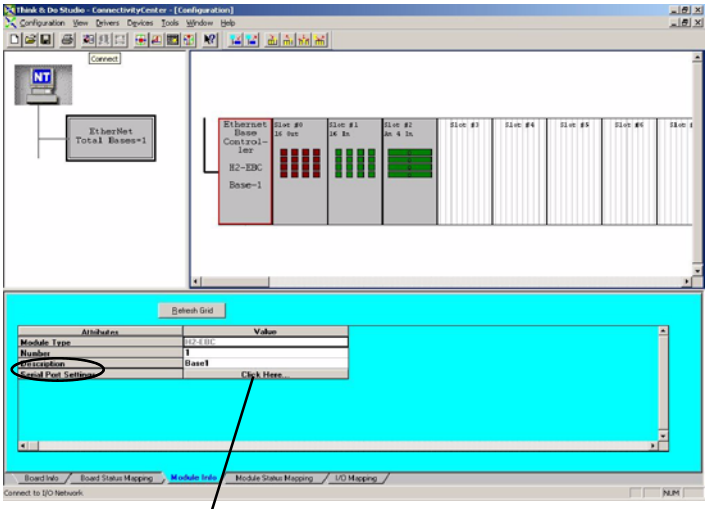


Using EZTouch/EZText Panel with the RJ-12 Serial Port

The H2-EBC has a built-in RS232C serial port that can be used to connect to an operator interface panel. Use ConnectivityCenter to configure the connection from the H2-EBC to the EZTouch or EXText panel. The “HMI Options for Remote Base Controllers” section in the “Operator Screen Techniques” chapter in the ***Think & Do Studio Learning Guide*** discusses configuring and using Optimate Panels with the EBC.

Adding Operator Interface Device

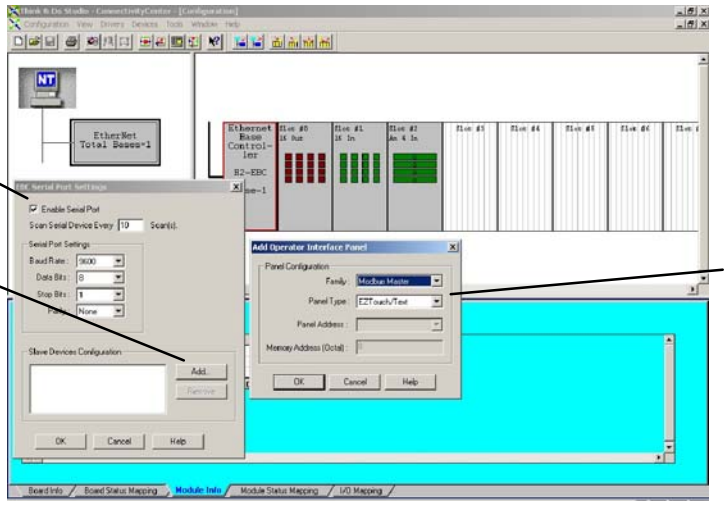
Click on the H2-EBC graphic and Module Info tab in the ConnectivityCenter. The Serial Port Settings attributes are all that will be visible in ConnectivityCenter when the I/O is disconnected. Follow the steps below to configure the EBC’s RJ12 serial port to be used with either the EZTouch or the EZText panels.



1. Click Here to access port settings.

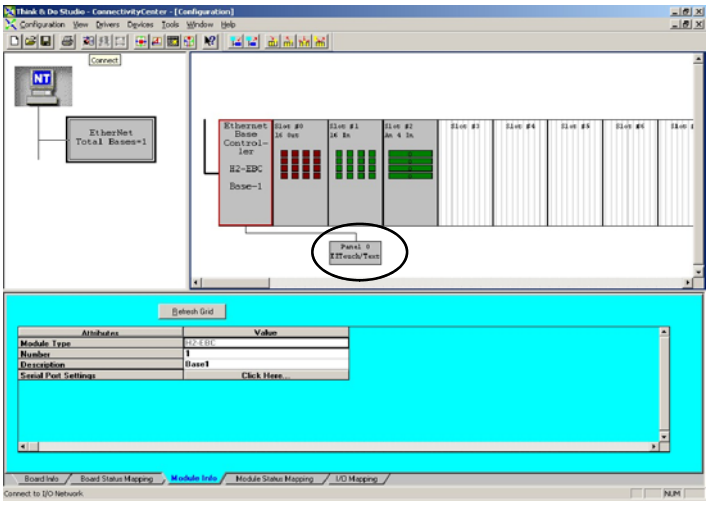
2. Check **Enable Serial Port** to enable the serial port. These settings must match the port configuration of the EZ panel.

3. Click **Add...**



4. Set the Family to Modbus Master and the Panel Type to EZTouch/Text.

Once the EZTouch or EZText panel has been added, it will show up in the list of the configured devices, and an EZTouch/Text panel graphic symbol will be located under the I/O base next to the EBC.



Using Monitor I/O to Verify Panel Operation

Re-connect to the I/O in ConnectivityCenter by either clicking on **Configuration**, then **Connect** or by clicking on the **Connect** toolbar button. Then scan the I/O by either clicking on **Configuration**, then **Scan** or by clicking on the **Scan** toolbar button. Doubleclick on the EZ panel box graphic to launch the Monitor I/O Dialog Box. The Monitor I/O tool allows the user to update the fields at any moment, altough the panel continuously updates the fields with changes as well. All of the "Value" fields in the Monitor I/O Dialog Box are read/write and are updated from the the Monitor I/O Dialog box which takes precedence over updates from the panel.
The user can update bit values (Input, Output and Flag) immediately by one mouse click or by pressing the space bar.
When typing in numbers, the grid will enter the edit mode which will block any conflicting updates from the panel. The edit mode entry is completed after pressing Enter, any arrow key or by selecting a new line.