Node Serial Communication Setup

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- Node Console Cable
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Node Console Cable Driver Installation

The MHTi Node Console Cable provides the Installer direct access to the Node in the field to test and make setup changes as needed without the need for access to the Inspextor Software. The steps outlined below will help the Installer configure their machine to successfully recognize that cable.

Step 1 Accessing CP210x Latest Releases:

The Node Console Cable will need to have the drivers installed to provide the desired functionality for accessing the node settings.

The Latest Release of the Driver can be found here:

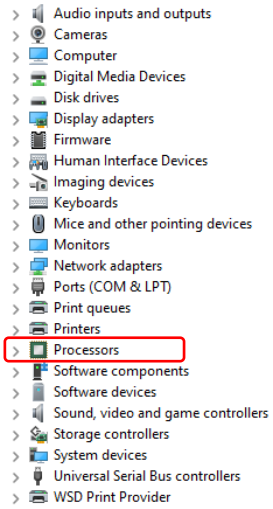
https://www.silabs.com/documents/public/software/CP210x_VCP_Windows.zip

You will need to unzip the directory and install the x64 or x86 package. Follow the on-screen prompts to complete the installation.

Step 2 Validating CP210x Installation:

To Validate the proper functionality of the Node Console Cable, follow the steps listed below:

- Open The Device Manager Program
- Access the COM&LPT tab.
- Plug the Console Cable into the Computer
- The page should refresh and show the CP210 device as active in the console page.



Tera Term Installation

Tera Term is MHTs Trusted terminal emulation software that allows users to access remote servers and devices using various protocols like SSH, and serial ports. It provides a user-friendly interface for managing network devices. It allows direct serial communication with the MHTI-NODE-90 Platform.

Step 1 Accessing Tera Term Latest Releases:

The Latest Releases of Tera Term can be accessed the tera term GitHub.

https://github.com/TeraTermProject/osdn-download/releases/tag/teraterm-5.0

for convenience MHT has placed the repository here. Scroll to the bottom of the page and select the *.exe File.

Step 2 Installing / Configuring Tera Term:

Follow the on-screen prompts to complete the installation of Tera Term.

- A screen will appear like what is displayed in Figure 1.
- Step 1 will be to select the Radio button that is circled in red in Figure 1
- We are going to establish a serial connection with the MHT-NODE-90 that we are connected to.

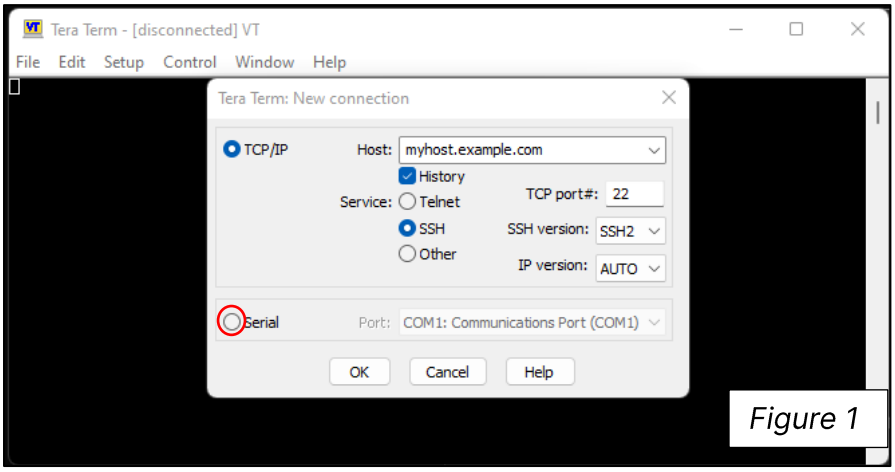


Figure 1

MHT Tera Term Serial Connection Settings

MHT has a specific set of settings that allow our devices to communicate with the Tera Term user this section will help you set those specific setting on your running instance of Tera Term. In Figure 2 Below I have dropped the settings for intermediate users.

Serial Settings	
Speed	115200
Data	8 bit
Parity	None
Stop bits	1 bit
Flow controls	none

Figure 2

Configuring Serial Port Settings

In the main screen in Tera Term, you need to access the “Setup” menu then select “Serial Port”. This is demonstrated in Figure 3.

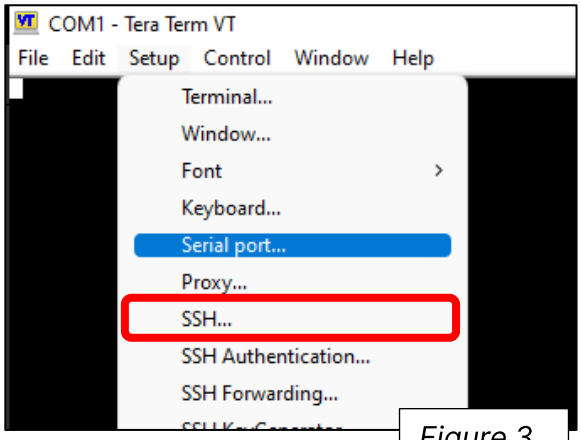


Figure 3

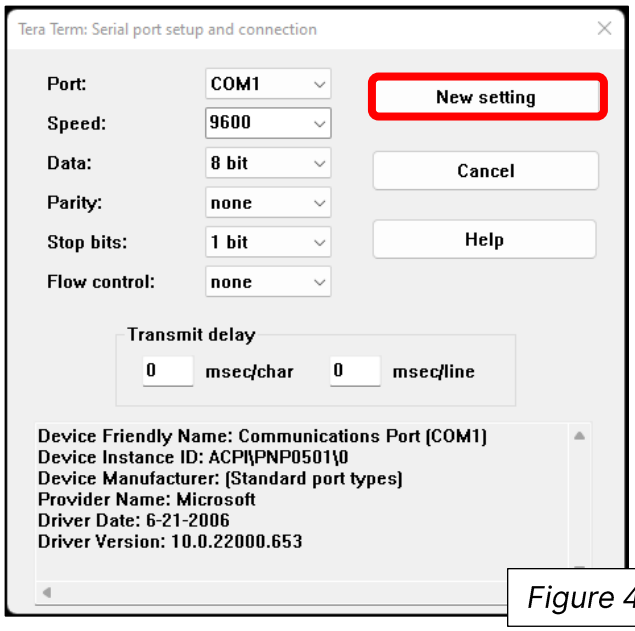


Figure 4

In figure 4 you will need to input the settings that are displayed in Table 1 above and select the “New Setting” option. This will save the settings on the selected port.

Connecting and Configuring

It is important during the configuration process that the load is removed from the device. If you observe figure 5 on the right, you can see that the only 2 cables connected to the device are the controls cable and the POE Cable.

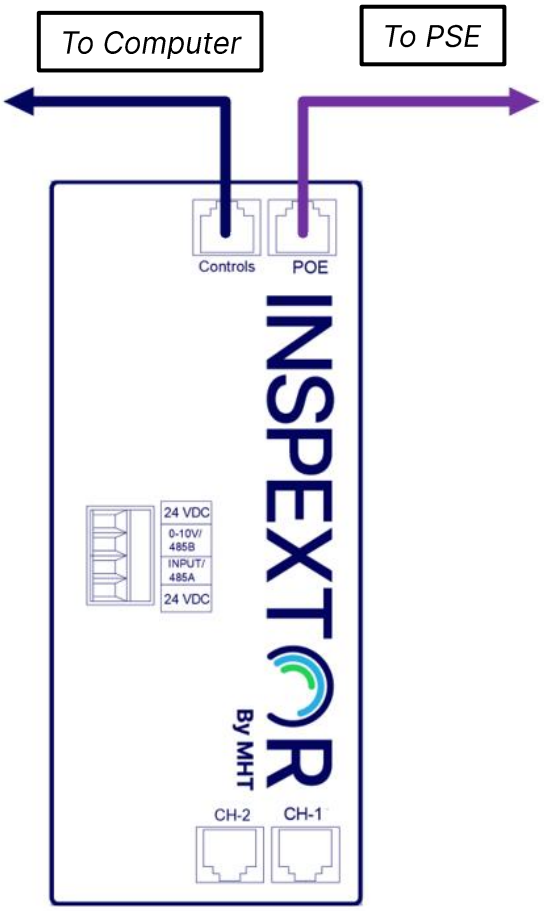


Figure 5