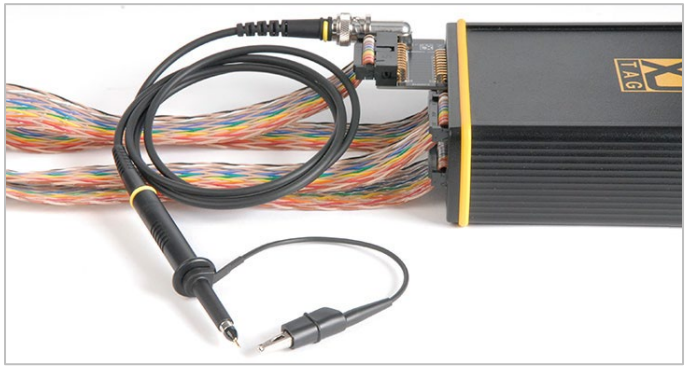
Getting Started with XJProbe

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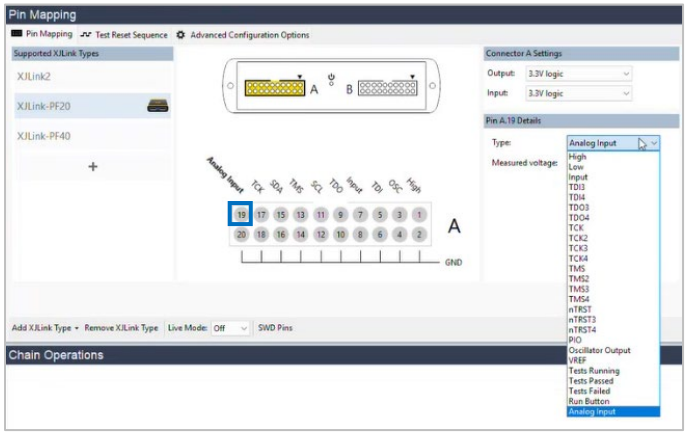
The XJProbe provides voltmeter functionality built directly into XJDeveloper to streamline circuit debugging. This is achieved through a connector passthrough which plugs directly into the XJLink-PF20 or XJLink-PF40, connecting pin 19 to a probe for the user to manually test points on the board.

XJDeveloper can be configured to use the XJProbe manually or it can be activated automatically from an error in the Connection Test.



Manual Setup

1. If there is already a connection to the port you want to use in your XJLink-PF20 or PF40, unplug it.
2. Plug the existing JTAG connections into the XJProbe adaptor board and then plug the adaptor board directly into the XJLink.
3. If not connected, plug the probe itself into the adaptor board.
4. In XJDeveloper, switch to the Pin Mapping screen and select the appropriate XJLink controller if required.
5. Select the port which has the probe attached.
6. Click on pin 19 in the pin mapping diagram and select “Analog Input”.

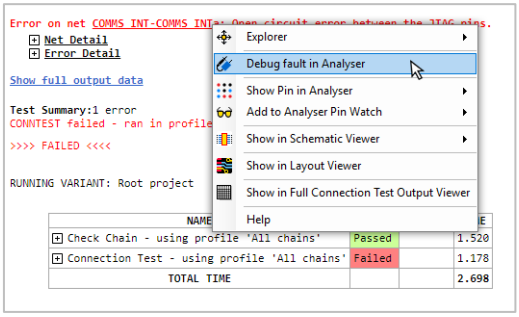


7. Select the Analyser screen on the left, and save the project if you want to keep this pin set.
8. Click the “View Pin List” button in the toolbar or select it in the “Analyser/View” menu.
9. Select XJLink in the device list in the Pin List panel.
10. This will show all pins which are currently being measured – pins set to PIO or Analog Input. Select pin 19 and “Pin Watch” to add it to the lower panel. This allows you to watch specific pins from different devices without switching back and forth between devices.
11. Click the “Run” button ▶ to start reading from your board and then use the probe to check test points or pins on the board. The measured voltage will be shown in the Pin List and the Pin Watch.

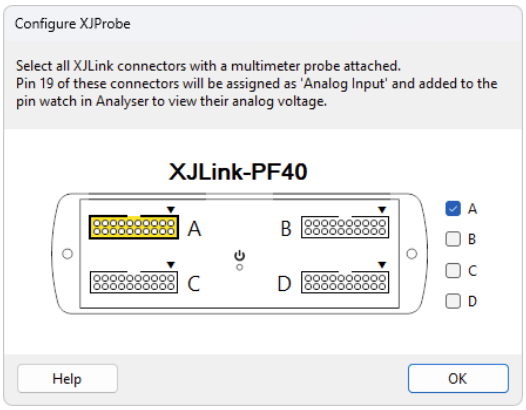
Debugging Errors in Connection Test

The alternative way to start using the XJProbe is from an error in connection test. This automatically walks you through the setup process.

1. As before, unplug any connectors that are plugged into the port you want to use on your XJLink-PF series controller, plug these connections to your UUT into the XJProbe adaptor board and plug that into the XJLink. Connect the probe to the adaptor board as well.
2. Run your connection test. If it fails, right click on the net error and select “Debug fault in Analyser”.



3. If not specified yet, a dialogue box will appear asking where your XJProbe is connected. Select the port the XJProbe is connected to. One box should be ticked per XJProbe connected.



4. XJDeveloper will automatically switch to the Analyser screen and show the relevant net in Layout viewer and with the XJProbe shown in the Pin Watch panel.
5. Click the “Run” button ▶ to start reading from your board and then use the probe to check test points or pins on the board. The measured voltage will be shown in the Pin List and the Pin Watch.