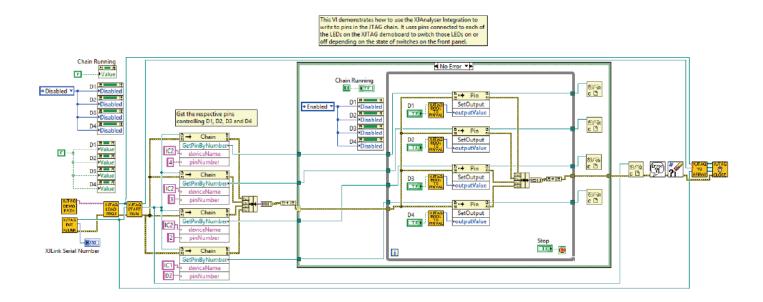


XJIntegration for LabVIEW Users

Quick Start Guide

Version 1





This quick start guide helps LabVIEW users get up and running with an XJIntegration example project.

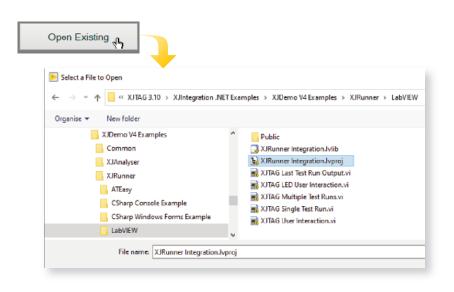
1. Check Your Software's Bitness

The bitness of the XJTAG installation must match that of your LabVIEW installation: if you are using 64-bit LabVIEW, you must use the 64-bit version of the XJTAG tools. If you are using a 32-bit version of LabVIEW, the 32-bit XJTAG version must be used.

The bitness of the XJTAG installation can be found by launching XJVersion from the Windows Start menu. If the XJTAG software needs to be changed, uninstall the current version and install one with matching bitness in its place.

2. Open an Example Project

- a) Open the XJRunner Integration Project from within LabVIEW by navigating to the XJIntegration .NET Examples folder (usually in the C:\Users\Public\Documents\XJTAG x.y directory), where x.y is the XJTAG version being used.
- b) Select either XJDemo V3 Examples or XJDemo V4 Examples.
 If you have an XJDemo board, select the folder that matches your version of board.
- c) Go to the XJRunner/LabView folder and open XJRunnerIntegration.lvproj.

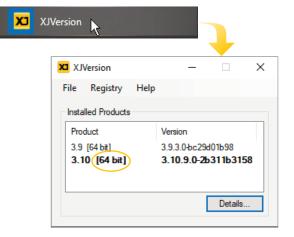








XJDemo v4





3. Open an Example VI

Double-click the example *XJTAG Multiple Test Runs.vi* from within the .lvproj project library you just opened.

XJRunner Integration.lvpr		
File Edit View Project Operate	Tools Window	
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ltems Files		
🖃 🗟 Project: XJRunner Integration.	lvproj	
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🔜 XJTAG Multiple Test f	Runs.vi	
XJTAG Single Test Run.vi		
XJTAG User Interaction.vi		
XJTAG Last Test Run Output.vi		
P P Dependencies		
Build Specifications		

4.64 Bit Users: Locate XJIntegration.dll

By default, LabVIEW will search the 32-bit directory for XJIntegration.	dll
XJAnalyser Integration.Ivlib:XJTAG Read Pin.vi	×
Loading: C:\Program Files(x86)\XJTAG 3.10\Bin\XJIntegration.dll	39 Loaded
Searching: C:\Program Files\National Instruments\LabVIEW 2019\vi.lib\addons\analyzer\Savi	ng
Ignore Item Ignore All Browse	Stop

If you are running a 64-bit version of XJDeveloper, LabVIEW will search for *XJIntegration.dll* in the wrong directory.

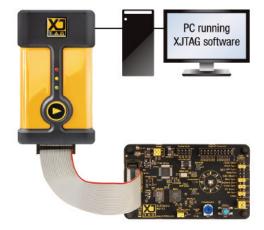
Provide the path to *XJIntegration.dll* when it cannot find the file: for 64-bit XJTAG installations, its default location is $C:\Pr ogram Files XJTAG x.y bin.$

Ignore the subsequent warnings that paths have changed that will be displayed when opening the project.

5. Connect Equipment

Connect the XJLink2 to your PC using the supplied USB cable.

If you have an XJDemo board, use the ribbon cable provided to connect the XJLink2 to the board's JTAG connector.





6. Run the Example VI

Run the VI.

The *XJLink Initialised* indicator will turn green to show the JTAG controller is ready, and its serial number will be displayed.

If necessary, adjust the *Pack File Path* so that it points to *XJDemo4.xjp* (if you have a v4 demo board) or to *XJDemo3.xjp* (if you have a v3 demo board).

The file is normally located in the directory C:\Users\Public\Documents\XJTAG x.y\Demo Board vZ, where Z is the version of demo board.

Click the **Load Project** button to load the XJPack file (which contains details of the tests to be run).

After several seconds, the *Project Loaded* indicator will turn green and the test list will be displayed.

7. Test the Board

Press the "Run" button to start testing the board.

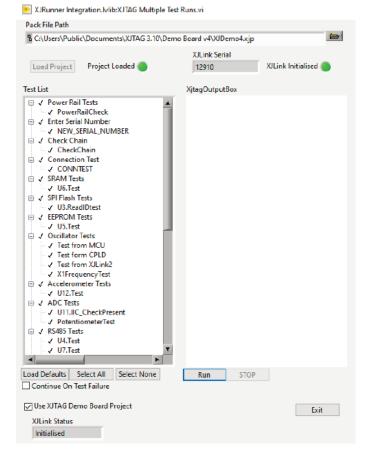
The test output will be displayed in the *XjtagOutputBox*.

When the *Serial Number* dialog box is displayed, enter a number of up to seven characters and click "OK".

Follow the instructions in the *XjtagOutputBox* and press the keyboard's spacebar when prompted during the thumbwheel voltage test.

During the LED test, click "Yes" in the displayed dialog box to confirm all the LEDs are functioning. Press and release the SW1 button on the demo board when prompted.

At the end of the tests, the *XjtagOutputBox* will display a summary box of results.



XJRunner Integration.Ivlib:XJTAG Multiple Test I	Runs.vi	
Pack File Path		
🖁 C:\Users\Public\Documents\XJTAG 3.10\Demo Board v4\XJDemo4.xjp		
Load Project Project Loaded	XJLink Serial 12910 XJLink Initialised	
Load Project		
Test List	XjtagOutputBox	
□ ✓ Power Rail Tests	erasing MAXII CFM block	
✓ PowerRailCheck	programming CFM block	
✓ Fowerkalicheck	programming UFM block	
	verifying CFM block	
✓ NEW_SERIAL_NUMBER	verifying UFM block	
E V Check Chain	DONE	
CheckChain	Exit code = 0 Success	
Connection Test	Program CPLD passed - ran in	
✓ CONNTEST	profile All Chains	
□ ✓ SRAM Tests	Erasing all flash contents.	
✓ U6.Test	Erase time = 1105ms	
SPI Flash Tests	U3.ErascAll passed - ran in	
✓ U3.ReadIDtest	profile All Chains	
EEPROM Tests		
✓ U5.Test	Programming flash from file	
I v Oscillator Tests	\Programming Files\5PI	
 J Test from MCU 	Flash\data.bin	
 J Test form CPLD 	Programming from address OxO	
Test from XJLink2	to 0x3FFF (0x4000 addresses)	
✓ X1FrequencyTest	Programming complete.	
Accelerometer Tests	U3.ProgramFromFile passed -	
✓ U12.Test	ran in profile All Chains	
ADC Tests	Verifying flash against file	
✓ U11.IIC_CheckPresent	\Programming Files\SPI	
✓ PotentiometerTest	Flash\data.bin	
	Verifying from address 0x0 to	
✓ U4.Test	0x3FFF (0x4000 addresses)	
✓ U7.Test	· · · · · · · · · · · · · · · · · · ·	
	And the second s	
Load Defaults Select All Select None	Run STOP	
Continue On Test Failure		
🔽 Use XJTAG Demo Board Project	Exit	
XJLink Status		
lunitational		

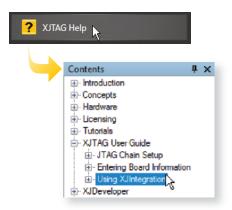


8. Learn More – Watch, Read, Study

Watch the LabVIEW help videos on the XJTAG Academy (academy.xitag.com).



Read the XJIntegration User Guide in the XJTAG Help System for assistance on using XJIntegration in your own LabVIEW projects. It provides guidance on incorporating XJTAG's example Virtual Instruments into your project, and on calling the XJIntegration API directly in your own VIs. The Help System can be launched from the *Help* menu of your XJTAG application or by clicking the XJTAG Help icon in the Windows Start menu.



Study – for a definitive list of what the XJIntegration API can do and a description of the public methods, check the API Reference section of the XJTAG Help system. The Help System can be launched from the *Help* menu of your XJTAG application or by clicking the XJTAG Help icon in the Windows Start menu.

Schematic Viewer Log Files BSDL Library Common UI Blements XJRash Utilities Troubleshooting XJIntegration (NET Integration) XJIntegration .NET Assembly Overview Deployment Migrating from XRunnerIntegration.dll to XJIntegration.dll LabVIEW Using XJIntegration.dll in a C# project Minimum Requirements MarinerIntegration	? XJTAG Help
XJIntegration Assembly XJTAG.Integration Namespace XJTAG.Integration.XJAnalyser Namespace XJTAG.Integration.XJRunner Namespace XJAPI Reference	 Log Files BSDL Library Common UI Elements XJRash Utilities Troubleshooting XJIntegration (.NET Integration) XJIntegration .NET Assembly Overview Deployment Migrating from XJRunnerIntegration .dll to XJIntegrationdll LabVIEW Using XJIntegrationdll in a C# project Minimum Requirements API Reference XJIntegration Namespace XJTAGIntegration XJRunner Namespace XJTAG.Integration XJRunner Namespace