

Overview

The XJLink2 is a small, portable, USB 2.0 to JTAG controller that provides a high speed interface to the JTAG chain.

The small, lightweight design means the XJLink2 can easily be moved to the Unit Under Test (UUT), while a number of advanced features make it easy to connect to a wide range of circuit boards.

Configurable JTAG interface

Because there is no standard JTAG header or pinout, the XJLink2's JTAG connector is configurable in software to allow you to select the pinout that best suits the board being tested. Two of the connector's 20 pins are fixed grounds (pins 10 and 20), but the JTAG signals for up to four chains can be distributed across the other pins as needed, with any spare pins assignable as digital I/O.



Advanced connectivity

The XJLink2 has variable signal termination, so it can handle boards both with and without signal termination. The advanced auto-skew control enables you to get the maximum frequency out of your JTAG chain and cable while the configurable voltage levels allow you to connect directly to most TAPs.



Available in black and yellow.*

Your test system where you want it

The XJLink2 contains the license for your XJTAG system. This allows you to easily move your licenses around on and off site to give you maximum flexibility. This also means you aren't tied to one machine to do your XJTAG testing.

Light & portable

The XJLink2 can work with a laptop PC with a USB port and can supply power to low-power target systems, so testing can be done even without a source of mains power. This is especially useful if testing has to be done in the field or in a very busy lab.

*Subject to availability.

Key Benefits

- Small, lightweight, portable design: ideal for lab and field work
- Self-contained licence allowing you to use the XJTAG system on multiple machines
- Re-configurable unit for multiple UUTs saving costs

Features

- Up to 4 TAP connections to UUT
- Configurable JTAG connector pinout to suit DUT
- USB bus-powered (no external PSU)
- TCK clock frequencies up to 166 MHz
- Two different voltages can be configured, from 1.1 V to 3.3 V in 0.1 V steps
- Button to start test
- Visual indication of test status
- High speed USB 2.0 interface, backwards compatible with USB 1.0 & 1.1
- Adjustable JTAG signal termination
- Spare pins on the JTAG connector can be used in place of the button or to indicate the test status
- Pins can also be used as general purpose I/O during testing, for example for fast Flash programming
- Automatic signal skew control
- Can supply power to the target board (3.3 V, <100 mA)
- Built in voltage meter on all I/O pins
Voltage input: Min 0, Max 5 V
- Frequency counter on all I/O pins
Frequency input: Min 1 Hz, Max 200 MHz
Selectable measurement period of 1ms, 10ms, 100ms, 1s, 10s
- JTAG signals are +5 V tolerant

- Configurable voltages
- Frequency measurements
- Voltage banks
- Voltage measurements
- Number of JTAG controllers
- TAPs per JTAG controller
- GPIO on pins
- Adjustable JTAG controller
- Automatic JTAG signal termination
- Adjustable signal skew control
- Button to start tests
- Visual indication of test status
- TCK frequencies up to (MHz)
- Digital Oscilloscope
- Spectrum Analyser
- Waveform & Function Generator
- Serial Protocols Analyser

Hardware features																Connection
XJLink2	Benchtop development and test	✓	✓	✓	✓	1	4	✓	✓	✓	✓	✓	✓	✓	166	USB
XJQuad	Production	✓	✓	✓	✓	4	4	✓	✓	✓	✓	✓	✓	✓	166	USB
PXI-XJLink2	LabVIEW integration	✓	✓	✓	✓	1	4	✓	✓	✓	✓	✓	✓	✓	166	PXI
XJLink2-3030	High volume / test integration	✓	✓	✓	✓	1	4	✓	✓	✓	✓	✓	✓	✓	166	SPEA 3030
XJLink2-3070	High volume / test integration	✓	✓	✓	✓	1	4	✓	✓	✓	✓	✓	✓	✓	166	Keysight Utility Card
XJLink2-CFM	High volume / test integration	✓	✓	✓	✓	1	4	✓	✓	✓	✓	✓	✓	✓	166	Teradyne TestStation
Expert ADF-2	Legacy project support	✓	✓	✓	✓	1	4	✓	✓	✓	✓	✓	✓	✓	166	USB



XJQuad

XJQuad is a 4-port version of the XJLink2 USB-to-JTAG controller. It is particularly suitable for volume production testing.

XJQuad can be used for testing four boards simultaneously or independently. It is supplied with XJRunner software.



PXI-XJLink2

PXI-XJLink2 allows you to easily use XJTAG in PXI-based test systems.

A full set of integration interfaces and examples are installed with XJTAG to allow easy integration into test executives such as LabVIEW™ and LabWindows™ or bespoke .NET applications.



XJLink2-3030

XJLink2-3030, approved by SPEA, allows you to easily use XJTAG in SPEA 3030™ ICT bed-of-nails board testers.

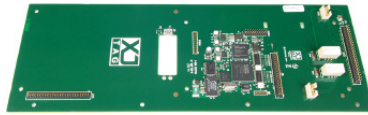
It fits into one slot on the SPEA 3030 XJLink2 Carrier Board and is fully integrated into the SPEA Leonardo™ environment.



XJLink2-3070

XJLink2-3070, approved by Keysight Technologies, allows you to easily use XJTAG in Keysight i3070™ ICT machines.

It fits into one slot on the Keysight (Agilent) i3070 utility card and is fully integrated into the BTBasic environment.



XJLink2-CFM

XJLink2-CFM allows you to easily use XJTAG in Teradyne TestStation™ ICT machines.

XJLink2-CFM fits into one slot on the Teradyne Multi-Function Application Board.



XJTAG Expert ADF-2

XJTAG Expert ADF-2 is a portable Boundary Scan tester + Oscilloscope.

Its USB-to-JTAG adapter provides a high speed interface to the JTAG chain while the advanced features make it easier to test, debug and repair a wide range of circuit boards.