

Overview

XJIsolator provides galvanic isolation between a Device Under Test (DUT) and a JTAG controller. Its small form factor means an XJIsolator board can be easily mounted inside a test fixture.

Galvanic isolation

Galvanic isolation overcomes the challenge of connecting a test system to a DUT in situations where (either intentionally or unintentionally) they do not have a common ground. XJIsolator provides galvanic isolation for the Test Access Port (TAP) signals that are used when testing a DUT with JTAG.

Plug & Play

XJIsolator easily integrates into a test set-up via its two 20-way IDC connectors using standard ribbon cables. It supports all of the TAP signals required for JTAG testing, passing them to and from the DUT.

The XJTAG's JTAG controllers have an advanced auto-skew algorithm which automatically compensates for the small additional delay introduced by adding the XJIsolator to a test set-up, making it simple to use and 'invisible' to XJTAG's software.

Integrated power supply

The DUT side of XJIsolator runs at logic levels of 1.8 V to 3.3 V, set by reference voltage on the JTAG controller or optionally on the DUT. To isolate the DUT signals from the JTAG controller an external power supply (not supplied) is required, supplying 5-15 V DC.

Extending test capability

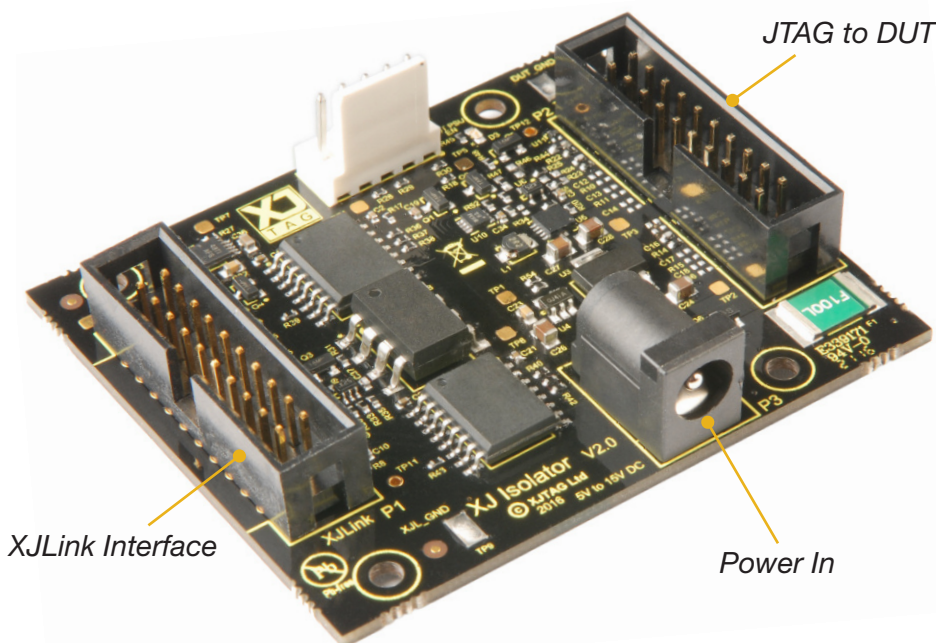
XJIsolator has been designed to work with XJTAG's existing hardware and software products, including the XJLink2 and original XJLink JTAG controllers, and the complementary XJExtender and XJXDP boards. Combining these boards can address signal integrity issues and/or high drive strength requirements as well as galvanic isolation.

Key Benefits

- Provides high levels of galvanic isolation
- Compatible with all other test hardware from XJTAG
- Simple 'Plug & Play' installation

Features

- Isolation for voltages up to 443 Vrms
- Supports TCK clock frequencies up to 50 MHz
- Very low uni-directional propagation delay, typically 8 ns
- Single power supply required, referenced to DUT ground
- Flexible power supply voltage: 5 V to 15 V
- Variable I/O voltages from 1.8 V to 3.3 V (set by JTAG controller or DUT)
- 5 V I/O voltage option available
- Offers 8 isolated signal channels configured as 6 downlink and 2 uplink
- Requires no configuration in XJTAG software
- Compatible with XJExtender and XJXDP



Order code

XJIsolator board: XJTAG-ISO-0010
Contact your local distributor for prices.

Distributor / Technology Partner