

Overview

XJTAG Expert is the world's first portable Boundary Scan test solution that comes with digital oscilloscope, waveform and function generator, spectrum analyser and serial protocols analyser. Its USB 2.0 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. The portable design means the XJTAG Expert ADF-2 can easily be taken to the Unit Under Test (UUT).

Powerful test tools where you want them

XJTAG Expert ADF-2 contains the licence for your XJTAG system, allowing you conveniently to use its capabilities wherever they are needed. You aren't tied to one PC and you even have the flexibility to take the unit off-site to your customers, contract manufacturers...

Even with its advanced digital features, XJTAG Expert ADF-2, requiring just two USB connections, can be used with a laptop PC. The unit can also supply power to small target boards enabling them to be tested without a source of mains power.

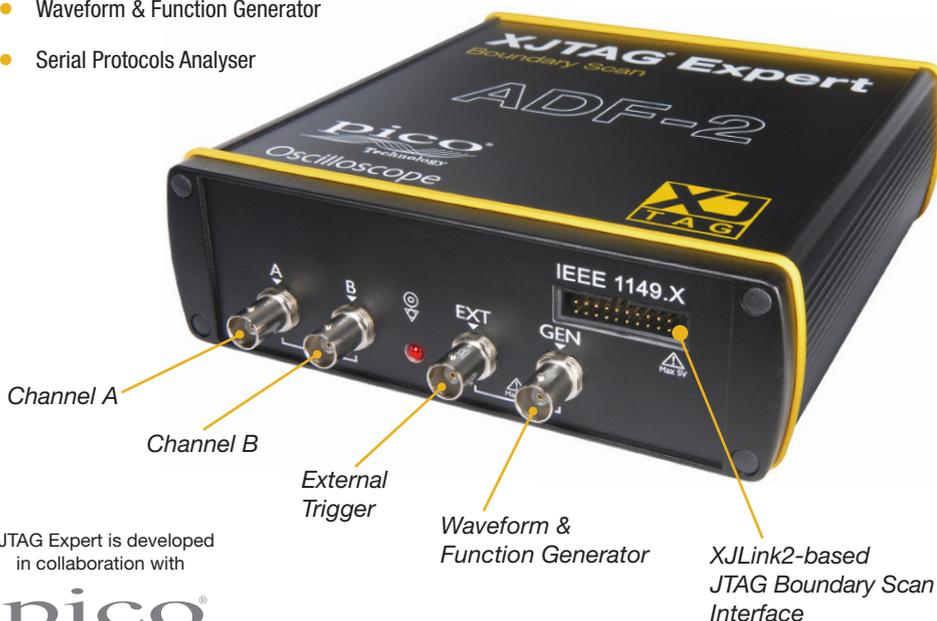
- Digital Oscilloscope, 200 MHz
- Spectrum Analyser, 200 MHz
- Waveform & Function Generator
- Serial Protocols Analyser

Configurable JTAG interface

You only need a simple cable assembly to connect XJTAG Expert to up to four TAPs on your target board. The configurable 20-way connector simplifies the process of connecting your XJTAG test system to the UUT.

Flexible connectivity

XJTAG Expert ADF-2 can be configured to work in the best way with your board. If there are signal termination issues, they can be overcome by selecting an appropriate drive strength and slew rate. Configurable voltage levels allow you to connect directly to most TAPs while the advanced automatic skew control enables you to get the maximum frequency out of your JTAG chain and cable.



XJTAG Expert is developed in collaboration with



Key Benefits

- Portable design: ideal for lab & field work
- Self-contained licence allowing you to use XJTAG on multiple PCs
- Re-configurable unit for multiple UUTs saving costs
- Advanced digital features for debug, test and repair:
 - 200 MHz digital oscilloscope
 - 200 MHz spectrum analyser
 - Waveform & function generator
 - Serial protocols analyser

Boundary Scan Features

- XJLink2 compatible
- Up to 4 TAP connections to UUT
- Handles different cable and board configurations
- 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
- 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 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 voltmeter on all I/O pins
Voltage input: Min 0 V, Max 5 V
- Frequency counter on all I/O pins
Frequency input: Min 1 Hz, Max 200 MHz
Selectable measurement period of 1 ms, 10 ms, 100 ms, 1 s, 10 s
- JTAG signals are +5 V tolerant

