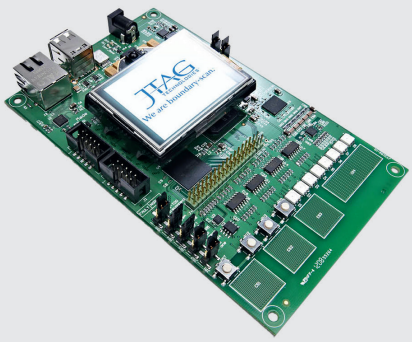
Datasheet

JT 2156 Training Board

Devised to demonstrate all the latest features and test techniques available



- **Effective training target**
- **Includes typical modern device types**
- **ARM 7TDMI Core NXP processor**
- **Touch screen controller**

While previous JTAG/boundary-scan (IEEE Std. 1149.1) training and demonstration designs have been adequate in teaching the basic principles and simple test modes such as boundary-scan interconnection, they have not always been representative of modern designs. The JT 2156, however, features a host of current, widely used BGA and other SMT packaged devices that allow access to more abstract JTAG/boundary-scan - orientated tests and programming applications. In this way the JT 2156 can be used to learn more advanced techniques beyond the basic principles and simple test modes.

Training courses

*Pro*Vision and JTAGLive both feature built-in HTML 'training sites' based around the JT 2156 that offer a step-by-step guide to building all types of test and programming applications. Advanced on-site developer's training courses based on JT 2156 can be requested via info@jtag.com.

'Standard' test and ISP applications

Standard test and ISP application that can be run on the JT 2156 include:

i) Scan path infrastructure (includes BSR length);
ii) Bscan pin to bscan pin interconnect test;
iii) DDR memory cluster testing;
iv) LED illuminations;
v) Clock toggle-check tests;
vi) USB controller cluster test
vii) Resistor pull-up/down presence checks; and
viii) Direct FPGA programming.

'Enhanced' test and ISP applications

Enhanced JTAG orientated applications, many of which are handled by JTAG Technologies' powerful Python-based scripting module JFT (JTAG Functional Test) include:

i) Various tests through I2C and SPI bus emulation in JFT
ii) Serial PROM programming using Altera's Active Serial mode;
iii) Testing of the Ethernet PHY;
iv) Analog value capture and limits testing
v) Tests activated through our CoreCommander processor core debug access option, such as real-time PWM, ADC, DDR testing, I2C etc.

Global Representation

Want to know more about our solutions and products?
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We ***are*** boundary-scan.®

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