JTAG Technologies' Preview for *IEEE Autotestcon 2017,*
Booth 721, Schaumburg, Illinois, September 14th-17th

Eindhoven, the Netherlands, August 2017 – JTAG Technologies, a leader in innovative boundary-scan (IEEE Standard 1149.1) products delivering a broad line of software and hardware tools for test preparation, test execution, test result analysis, and in-systemprogramming applications, will demonstrate amongst other new boundary scan solutions for the demanding avionics clientele at Autotestcon this year:

The JT 2147/eDAK - a new multi-function signal conditioning module
JTAG Technologies is excited to show the immediate release of a new JTAG/boundary-scan test hardware interface product compatible with the MAC Panel mass interconnect system. The JT 2147/eDAK is a multi-function signal conditioning module that allows 'ideal world' connections from JTAG Technologies PXI and PXIe DataBlasters to the MAC panel 'Scout' connection system.

Based on the popular QuadPod™ architecture from JTAG Technologies, the JT 2147/eDAK is an enhancement of JTAGs current DAK interface and has been specifically designed for robust high-integrity ATE systems. In using the JT 2147/eDAK, test system builders will greatly simplify their

wiring task and, at the same time, retain the excellent signal integrity assured by the QuadPod's active interface.

In addition to four independent JTAG Test Access Ports (TAPs), the JT2147/eDAK features 64 digital I/O scan channels plus 16 'static' DIOs. Each TAP can be programmed to operate through a range of voltage levels and two can also operate as other test and programming interfaces such as BDM or SWD. Peter van den Eijnden, MD comments 'JTAG Technologies equipment is used worldwide within high-reliability testers within Mil/Aero and other sectors. The JT 2147/eDAK will greatly simplify the system builder's tasks and enhance the power of their test systems through improved signal conditioning.'

Targeting Functional Testers – Virgina Panel Solution

This JTAG/boundary-scan hardware interface product is compatible with the Virginia Panel (VPC) mass interconnect system. The JT 2147/VPC is a signal conditional module that allows 'ideal world' connections from JTAG Technologies PXI and PXIe DataBlasters to the VPC connection system.

Based on the highly successful QuadPod™ architecture from JTAG Technologies, the JT 2147/VPC has been specifically designed for connection into G20x or G14x 192 pin 'QuadraPaddle' connectors and is also compatible with the VPC 'pull thru' system. By integrating the JT 2147/VPC, test system builders will greatly simplify their wiring task and, at the same time, retain the excellent signal integrity assured by the QuadPod's active interface.

The JT2147/VPC features four independent JTAG Test Access Ports (TAPs) along with 16 static DIO channels and 64 dynamic DIO channels. Each TAP can be programmed to operate through a range of voltage levels to suit various logic families.

Peter van den Eijnden remarks; "We can proof that the use of boundary-scan techniques will reduce the test equipment design burden by reducing the requirements within functional test. In service JTAG/Boundary-scan is also used extensively where programmable devices can have embedded code repaired or 'up-issued' as part of a preventative maintenance schedule".

Another highlight from JTAG Technologies – the JT 5705/FXT Multi-Function Tester

The latest product on display will be an example of JTAG's 'fixture embedded' test technology - the JT 5705/FXT multi-function JTAG tester built into one the *small linear* series of cassette-based re-configurable fixtures of Everett Charles Technologies (ECT), a world-renowned name in PCB test fixtures and interface.

The JT 5705/FXT is a compact, single-board test system that supports analog measurement and stimulus, frequency measurements, digital I/O, boundary-scan testing and also in-system device programming. Within the fixture multiple JT 5705/FXT tester cards can be mounted on purpose built carriers featuring the ATE industry standard '.

TapCommunicator – Space Technology

JTAG TapCommunicator facilitates remote execution and diagnostics of boundary-scan applications, regardless of distance or environmental difficulties. The off-the-shelf system is based

on a one gigabit Ethernet connection (IEEE Std 802.3z) providing virtually unlimited range between the controller and target. However, the TapSpacer technology upon which TapCommunicator is based allows any communication link to be used. For solutions using communication links other than Ethernet, contact JTAG Technologies for further information. The standard system consists of an "uplink" or primary module (JT 2143), located in proximity to the boundary-scan controller, and one or more "downlink" or secondary (JT 2144) modules at the target.

Peter van den Eijnden, MD, on todays' avionic's critical challenges: "All applications that require access to the boundary-scan chains without physical proximity (eg. application execution where human access is not possible) can be supported by TapSpacer technology. Safety critical avionics equipment is a prime example of systems that must be tested and retested both mechanically and electrically to help achieve a target zero percent failure rate. Since JTAG/Boundary-scan technology is now commonplace within the components built into these systems it can be used throughout the design's life cycle as part of the rigorous testing regime. In PCBA (printed circuit board assembly) production for example, JTAG is used to (electronically) test the fidelity of interconnects between the mounted electronic devices. What's more since it achieves this by driving signals from deep inside the device or chip (rather than traditional

techniques that drive high-currents external to the part) the testing is more harmonious, less harmful to the circuits under test and potentially avoids device longevity issues."

About JTAG Technologies

JTAG Technologies is a market leader and technology innovator of boundary-scan software and hardware products and services. The company was the first to bring to the market such important advances as automated test generation, automated fault coverage analysis, automated flash and PLD programming via boundary-scan, and visualized boundary-scan analysis. Its customers include world leaders in electronics design and manufacturing such as Ericsson, Flextronics, Honeywell, Medtronic, Motorola, Nokia, Philips, Raytheon, Rockwell-Collins, Samsung, and Sony. Its innovative boundary-scan products provide test preparation, test execution, test result analysis and in-system programming applications. With an installed base of over 6500 systems worldwide, JTAG Technologies serves the communications, medical electronics, avionics, defence, automotive, and consumer industries with offices throughout North America, Europe and Asia. JTAG Technologies headquarters are located in Eindhoven, The Netherlands.

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