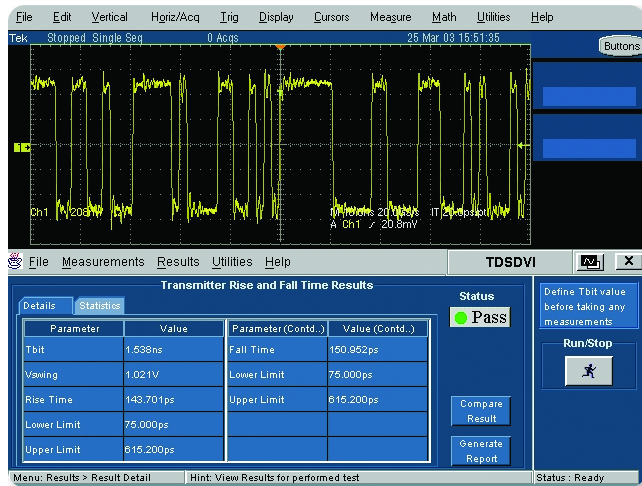


Fast, Efficient Solutions for DVI Conformance Measurement Challenges



Tektronix Supports DVI Conformance Testing with TDS7404B Expert Application Software

If you've got a DVI product in the works, you need tools and processes for conformance testing right now. Testing to today's DVI specifications ensures quality and interoperability in products using DVI, but it presents challenges as well:

- Some DVI test procedures are complex and not well understood
- Human intervention and subjective analysis make it difficult to achieve repeatable results
- Manual test procedures are prone to error and inconsistency
- Test times are unacceptably long when "traditional" or manual test methods are used

Tektronix provides all the DVI measurement solutions you need, ranging from high-bandwidth digital phosphor oscilloscopes (DPO) to probes to application-specific software. Tektronix has solved tough measurement problems like jitter and eye diagram tests to assemble a DVI solution that automates and simplifies your work.

Tektronix DVI Conformance Test Solutions

TDS7404B and CSA7404B DPOs are the preferred measurement platforms for DVI design and compliance work. They deliver unique advantages for DVI measurements.

- 4 GHz bandwidth at 20 GHz sample rate, four channels
- Ultra-low rise time (100 ps or less) supports accurate jitter and signal rise/fall measurements
- Unmatched waveform capture rate (up to 400,000 waveforms per second) speeds eye diagram construction
- TDS7404B Digital Visual Interface Conformance Test Software package automates key measurements and analysis steps
- TDSJIT3 Jitter Analysis Software package simplifies complex statistical analysis
- P7350, P7330, and P6330 High-bandwidth Differential Probes ensure low loading (< .3 pF with the P7350) on critical signals, and use just one oscilloscope channel
- P7240 probe matches DPO bandwidth, minimizes loading on single-ended signals
- Tektronix sampling oscilloscopes, TDR modules, data generators, and arbitrary waveform generators round out the DVI design solution

Fast, Efficient Solutions for DVI Conformance Measurement Challenges

► Application Fact Sheet

An Automated DVI Measurement Toolset

TDSdVI brings its own expertise to DVI conformance testing with a TDS Series DPO.

- TDSdVI encompasses knowledge of DVI standards, and mask templates for objective analysis of accurately measured data
- Automated tests get fast, repeatable results on skew measurements, rise/fall times, Tbit parameters, and more

A Million Acquisitions in the Blink of an Eye

The DVI Test and Measurement Guide recommends 1 million acquisitions to build a DVI eye diagram. DPO technology cuts test time to a minimum.

- TDS7404B and CSA7404B DPOs, with their waveform capture rate of 400,000 waveforms per second, can accumulate 1 million acquisitions in just a few seconds.
- The DPO's capture rate maximizes the acquisition of transient events

Jitter Tests Made Easy

- TDSJIT3 Jitter Analysis Software package executes complex measurements quickly and provides detailed reports on random and deterministic jitter characteristics
- TDSJIT3 is an expert package that automates both acquisition and analysis

Probing is a Partner in DVI Compliance Tests

- Low loading and high bandwidth ensure that rise times, amplitudes, and eye diagram characteristics reach the oscilloscope intact
- A full range of attachment methods makes it easy to connect to fixturing

Contact Tektronix:

ASEAN / Australasia / Pakistan (65) 6356 3900
Austria +43 2236 8092 262
Belgium +32 (2) 715 89 70
Brazil & South America 55 (11) 3741-8360
Canada 1 (800) 661-5625
Central Europe & Greece +43 2236 8092 301
Denmark +45 44 850 700
Finland +358 (9) 4783 400
France & North Africa +33 (0) 1 69 86 80 34
Germany +49 (221) 94 77 400
Hong Kong (852) 2585-6688
India (91) 80-22275577
Italy +39 (02) 25086 1
Japan 81 (3) 6714-3010
Mexico, Central America & Caribbean 52 (55) 56666-333
The Netherlands +31 (0) 23 569 5555
Norway +47 22 07 07 00
People's Republic of China 86 (10) 6235 1230
Poland +48 (0) 22 521 53 40
Republic of Korea 82 (2) 528-5299
Russia, CIS & The Baltics +358 (9) 4783 400
South Africa +27 11 254 8360
Spain +34 (91) 372 6055
Sweden +46 8 477 6503/4
Taiwan 886 (2) 2722-9622
United Kingdom & Eire +44 (0) 1344 392400
USA 1 (800) 426-2200
USA (Export Sales) 1 (503) 627-1916
For other areas, contact Tektronix, Inc. at (503) 627-7111
Last Update March 01, 2004

For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com/dvi



Copyright © 2004, Tektronix, Inc. All rights reserved. Tektronix products are covered by U.S. and foreign patents, issued and pending. Information in this publication supersedes that in all previously published material. Specification and price change privileges reserved. TEKTRONIX and TEK are registered trademarks of Tektronix, Inc. All other trade names referenced are the service marks, trademarks or registered trademarks of their respective companies.

05/04 opus/WOW

55W-17694-0