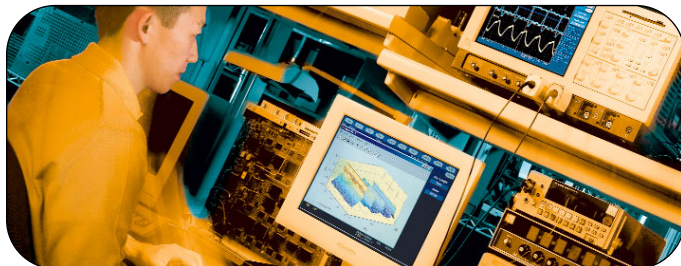


# OpenChoice™ Networking and Analysis Solutions



## OpenChoice™ Provides More Choices for Your Networking and Analysis Solutions

OpenChoice™ is a collection of software libraries, utilities, samples, industry-standard protocols and interfaces offered with many of Tektronix' oscilloscopes and logic analyzers. This collection enables you to integrate waveform and digital data acquisition, networking, analysis and documentation into a solution that is customized to meet your needs.

Tektronix oscilloscopes and logic analyzers are "open" to support how you want to analyze and document your work. OpenChoice provides a high degree of flexibility to network and adapt the instrument into new or existing systems and automate data acquisition, measurement, analysis and documentation.

### ► Features & Benefits

#### **TDS5000, TDS6000, TDS/CSA7000, CSA/TDS8000B Series Oscilloscopes**

Simplify the use of the oscilloscopes with software utilities such as MS Office Toolbars, Report Generator and others

TekVisa™, as an industry-standard protocol, enables fast communications

Supports VB, VBA, C/C++, .NET to create custom programs using popular application development tools

IVI drivers, Plug-and-Play drivers, and ActiveX Control enable popular application development environments such as LabView and LabWindows to operate the advanced features of these oscilloscopes

Enable control operations to and from the open Windows oscilloscope via GPIB and LAN

#### **TDS3000B, TDS2000, TDS1000 Series Oscilloscopes**

Easily capture and transfer measurement data from the oscilloscope to an external PC

Simply and quickly document and analyze measurement results using TDSPCS1 OpenChoice™ software

Easily utilize popular commercial software or create custom programs using familiar application development tools

Remotely control your oscilloscope using the Internet and your PC (TDS3000B Series oscilloscope only)

#### **TLA5000 and TLA700 Series Logic Analyzers**

Use productivity-enhancing software and peripherals with the logic analyzer's open desktop Windows operating system and its standard PC interfaces

Develop custom debug and verification tools using the logic analyzer's Microsoft.NET interfaces with programming tools such as Microsoft Visual Studio development tools, LabVIEW and other .NET programming tools

Remotely control your logic analyzer from anywhere in the network using the Internet and a Web browser

View data and create setups on PCs away from the logic analyzer using TLAVu™ Offline Data Viewer

### ► Applications

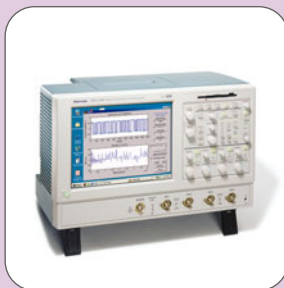
Design, Test, Debug, Verification and Validation

Automation and control of manufacturing systems and networked/lab environments

COMPUTING

COMMUNICATIONS

VIDEO



Performance  
oscilloscopes.



Full-featured,  
value-priced  
oscilloscopes.



Logic  
analyzers.

# OpenChoice™ Networking and Analysis Solutions

## OpenChoice™ with Open Windows Oscilloscopes

- ▶ TDS5000 DPO Series
- ▶ TDS6000 Series
- ▶ TDS/CSA7000 DPO Series
- ▶ TDS/CSA8000 Series

Digital design trends toward higher data rates and serial bus architectures are driving a need for versatile software tools to help engineers with measurement, analysis and automation. The OpenChoice™ environment, on all TDS5000, TDS6000, TDS/CSA7000, and CSA/TDS8000B Series instruments, addresses this need with flexible solutions – development tools, utilities, and standards-compliant drivers – that make the oscilloscope a full partner in the design and manufacturing process.

## Windows and Third-party Applications

With OpenChoice, waveform data is accessible by the most popular third-party analysis products using utilities provided by Tektronix and software developers. Test and measurement analysis tools such as Excel, LabVIEW, and MATLAB, can connect at network connection speeds through GPIB or LAN, using standard features of the oscilloscope. Documenting results with data plots and screen images is easy too with the Report Generator and Word toolbar.

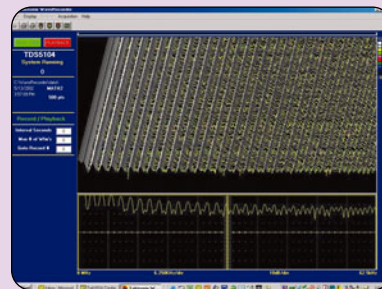
## Customization

OpenChoice provides for customization. It enables you to create custom programs using popular application development tools and environments. Industry-standard tools such as C, C++, LabWindows, ActiveX, plug-and-play drivers, and VISA can reside within the OpenChoice platform. The result is having your choice of popular programming languages to create new applications, or customize Windows applications.

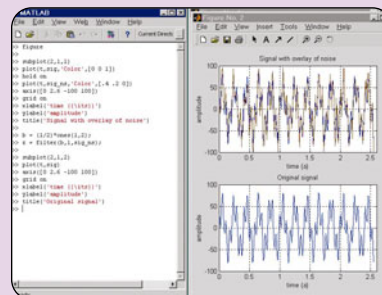
## Fast Communications

The applications interact with the oscilloscope's acquisition data via a PCI bus that is integral to the instrument. This delivers dramatically higher throughput than the more common GPIB path that most existing oscilloscopes use.

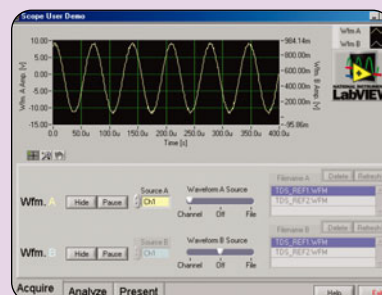
Now you have more options to choose from. Whether you use third-party applications, develop your own in-house tools, or use Tektronix proprietary tools, OpenChoice gives you that choice.



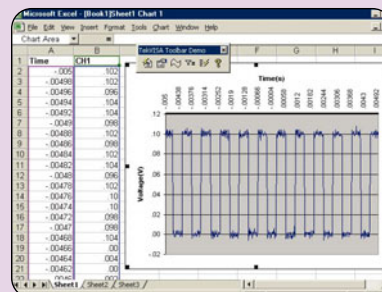
A customized program using Visual Basic.



Customized signal analysis using MATLAB.



Waveform acquisition and analysis using LabVIEW.



TekVISA™ Excel Toolbar demo.

## OpenChoice™ with TDS3000B, TDS2000 and TDS1000 Series Oscilloscopes

OpenChoice™ solutions offered with the TDS1000, TDS2000 and TDS3000B Series oscilloscopes deliver simple, seamless integration between the oscilloscope and the PC, providing you with multiple choices to easily capture, transfer, document and analyze your measurement results, according to your application environment and preference. From connectivity features and storage media to software and web instrument control, OpenChoice solutions extend the power and value of these brilliantly engineered, ultra-affordable oscilloscopes.

### Connectivity

Easily capture and transfer waveform images and measurement data from the oscilloscope to PC for simplified documentation and analysis using a range of connectivity features offered standard with the instrument, or included with optional communication modules.

The TDS3000B Series oscilloscope delivers standard connectivity that includes a built-in Ethernet connection and floppy disk storage capability. Optional GPIB, VGA and RS-232 connections give you a range of connectivity choices, available with the TDS3GV communications module. The TDS1000 and TDS2000 Series oscilloscopes deliver optional connectivity that includes GPIB and RS-232 connections, in addition to CompactFlash® mass storage capability.

### Documentation and Analysis

OpenChoice software allows you to quickly and easily visualize, analyze, document, print and share waveforms, setups and measurement data using familiar Microsoft Office applications. This software provides you with instant, one-click access to valuable waveforms, setups and measurement data using Microsoft Excel and Word toolbars, or the OpenChoice Desktop application. Comprehensive on-line help in multiple languages ensures worldwide support for users.

Seamless integration with third-party software applications simplifies documentation and analysis tasks. Easily utilize popular commercial software or create custom programs using familiar application development tools and environments, such as MATLAB and LabVIEW, for detailed analysis or documentation.

### Web Instrument Control

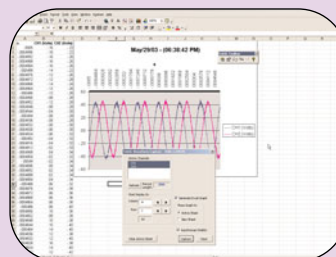
With e\*Scope® software, you can remotely control your TDS3000B oscilloscope from anywhere in the network using the Internet and your PC. Simply connect the TDS3000B oscilloscope to your LAN via its built-in Ethernet port, open a browser window on your PC and enter the TDS3000B oscilloscopes IP address in the address window. The oscilloscope will respond, allowing you to control it from your browser.



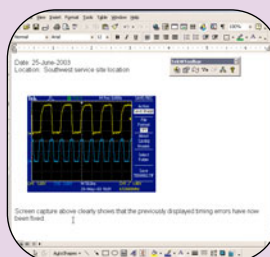
**Built-in Ethernet Connection.**  
Speeds the transfer of data from the TDS3000B Series oscilloscope to a PC for simplified documentation and analysis.



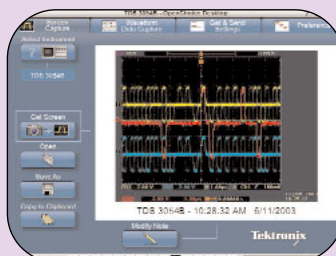
**CompactFlash® Mass Storage Capability.**  
Quickly transfer data from the TDS2000 and TDS1000 Series oscilloscopes to a PC or between oscilloscopes.



**Microsoft Excel Toolbar.**  
Automatically create graphs and charts for flexible data logging and analysis.



**Microsoft Word Toolbar.**  
Easily insert screen images and waveform data into documents to create detailed engineering reports and educational materials.

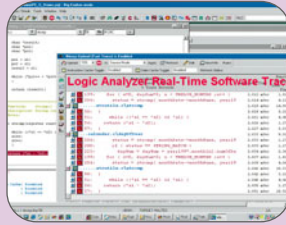


**OpenChoice™ Desktop Application.**  
Quickly and easily save data and screen images in a wide variety of file formats, such as .csv and .bmp.

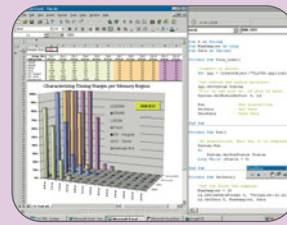
# OpenChoice™ Networking and Analysis Solutions



Debug faster with real-time hardware and software visibility.



For real-time debugging, Wind River Systems on-chip debug tools use the logic analyzer's real-time software trace.



Enhance data analysis with popular tools, such as Microsoft Excel.

## OpenChoice™ with TLA5000 and TLA700 Series Logic Analyzers

### Familiar Interfaces

Work faster in a familiar, open and connected environment with the Microsoft Windows operating system and PC platform, the platform upon which the TLA700 and TLA5000 logic analyzers are based. Logic analyzer applications operate like other PC applications, with familiar toolbars and desktop. The TLA5000 and TLA700 Series logic analyzers both offer standard PC features and interfaces, such as R/W CD, two USB ports, two SVGA ports, printer, serial, mouse and keyboard. The TLA700 Series also has an easily replaceable hard drive and two PC card slots. See more data quicker with dual external monitors using the two SVGA ports.

### Advanced Data Analysis

The remote control command set interfaces seamlessly with Windows applications, such as Excel, to provide powerful advanced data analysis and graph the results either directly on the logic analyzer or remotely over a network. Use popular software packages, such as Excel, directly on your logic analyzer. Trigger in/out connections provide an interface to other external instrumentation to coordinate measurement results.

### Enhanced Software Debugging

Debug software faster using an integrated logic analyzer trace system with on-chip debug solution from Wind River Systems. The logic analyzer speeds up software debugging by providing real-time software execution visibility that is integrated with run control development tools. Also, the tight coupling of Tektronix logic analyzers with IneoQuest network traffic generation and performance analysis systems offer extended 10 GbE test capabilities, including protocol analysis, large capture memory and sophisticated triggering.

### Automate Tasks

Automate a series of tasks using your choice of Microsoft .NET programming languages or by using TLA Script. TLA Script is easy and quick to use and it does not require a programming language to use it.

### Remote Operation

You can remotely operate the logic analyzer user interface from another Windows or UNIX workstation using a Web browser. Remotely view your target system operation across the network using a Webcam at your desk. Increase productivity by developing your own custom tools using the logic analyzer's Microsoft .NET programming interface.

### Documentation

SnagIt comes standard on the logic analyzers and provides a quick way to document the circuit's operation.

### Networking

Work quicker by using the logic analyzer on your networked environment for file and printer sharing.

### Offline Data Analysis

Save time and increase your team's efficiency with the TLAVu™ offline data viewer. With your PC, view logic analyzer data and create logic analyzer setups for the next time you're in the lab. TLAVu software installs on PCs running Windows 95, 98, NT 4, Me, XP and 2000.

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