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TLA5000 Series Logic Analyzers

▶ TLA5201 • TLA5202 • TLA5203 • TLA5204



▶ Features & Benefits

500 ps/32 Mb Deep Memory Timing with Simultaneous 125 ps MagniVu High-resolution Timing on Each Channel to Measure Digital Signal Timing on Fast Signals with Confidence

235 MHz State Acquisition for Analysis of High-speed Synchronous Digital Circuits

iView™ Time-correlated, Integrated Analog-digital View to See How Analog Anomalies are Affecting Your Digital Signals

Validate Setup/Hold Performance of Digital Devices with Setup/Hold Violation Triggering and Display

34/68/102/136 Channel Configurations Offer Flexible Solutions to Fit Any Budget

▶ Applications

Digital Hardware Verification and Debug

Monitoring and Measurement of Digital Hardware Performance

Single Microprocessor and Bus Debug

The TLA5000 Series Logic Analyzer: The Debug Power You Need, the Simplicity You Want and a Price You Can Afford

The affordable TLA5000 Series logic analyzers make high-speed timing resolution, deep memory acquisition, fast state acquisition and sophisticated triggering available to any digital designer who needs to identify initialization failures, operation crashes and intermittent operation. For first-time as well as experienced logic analyzer users, the TLA5000 Series is ideal for single synchronous bus state and timing analysis. An intuitive user interface, familiar Windows-based desktop and OpenChoice™ networking and analysis features make the TLA5000 Series logic analyzers easy to network into your design environment.

500 ps timing resolution with up to 32 Mb memory depth with simultaneous 125 ps MagniVu™ acquisition on each channel means you can measure digital signal timing on increasingly faster signals with confidence. With MagniVu timing resolution, find difficult problems such as digital logic errors, glitches, setup/hold violations and crosstalk quickly. Use setup/hold violation triggering and display to validate setup/hold performance of digital devices.

Today, most designs can have both digital and analog anomalies. With iView™ time-correlated, integrated analog-digital view, you'll clearly see how analog anomalies are affecting your digital signal – right on your logic analyzer display.

Performance Overview

MagniVu and iView (integrated view) simultaneous with either timing or state acquisition.

Deep Memory Timing

Maximum Timing Resolution – 500 ps (2 GHz).

Maximum Memory Depth – 32 Mb per channel.

MagniVu™

Maximum Timing Resolution – 125 ps (8 GHz).

MagniVu Memory Depth – 16 Kb per channel.

State Acquisition

Maximum Clock Rate – 235 MHz.

Maximum Memory Depth with Timestamps – 8 Mb per channel.

iView™ Tektronix Oscilloscopes Supported

TDS1000/2000 Series.
TDS3000/3000B Series.
TDS5000 Series.
TDS6000 Series.
CSA/TDS7000 Series.
TDS684C, TDS694C.
TDS754C, TDS784C, TDS724D, TDS754D, TDS784D, TDS794D.

www.valuetronics.com

Tektronix
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▶ Ordering Information

TLA5201 – 34 Channel, 500 ps deep memory timing resolution with up to 32 Mb memory depth with 125 ps MagniVu timing resolution on each channel, 235 MHz state acquisition, 512 kb Logic Analyzer.

TLA5202 – 68 Channel, 500 ps deep memory timing resolution with up to 32 Mb memory depth with 125 ps MagniVu timing resolution on each channel, 235 MHz state acquisition, 512 kb Logic Analyzer.

TLA5203 – 102 Channel, 500 ps deep memory timing resolution with up to 32 Mb memory depth with 125 ps MagniVu timing resolution on each channel, 235 MHz state acquisition, 512 kb Logic Analyzer.

TLA5204 – 136 Channel, 500 ps deep memory timing resolution with up to 32 Mb memory depth with 125 ps MagniVu timing resolution on each channel, 235 MHz state acquisition, 512 kb Logic Analyzer.

Instrument Options

Opt. 1C – Add iView external oscilloscope cable kit (012-1614-02).

Opt. 1P – Add full complement of P6418 17-Channel general-purpose probes (each includes two 8-Channel leadsets, one 1-Channel leadset, 20 SMT KlipChip™ grabber tips).

Opt. 2P – Add full complement of P6434 34-Channel high-density Mictor probes.

Opt. 3P – Add full complement of P6417 17-Channel general-purpose probes that allow you to separate the 8-Channel podlet groups into channels (each includes two 8-Channel leadsets, one 1-Channel leadset, 20 SMT KlipChip grapper tips).

Opt. 4P – Add full complement of P6419 17-Channel high-density compression probes.

Option	TLA5201	TLA5202	TLA5203	TLA5204
1P Add P6418 Probes	2	4	6	8
2P Add P6434 Probes	1	2	3	4
3P Add P6417 Probes	2	4	6	8
4P Add P6419 Probes	2	4	6	8

Opt. 7S – Increase base memory to 2 Mb memory depth per channel.

Opt. 8S – Increase base memory to 8 Mb memory depth per channel.

Service Options

Opt. C3 – Calibration Service 3 Years.

Opt. C5 – Calibration Service 5 Years.

Opt. D1 – Calibration Data Report.

Opt. D3 – Calibration Data Report 3 Years (with Option C3).

Opt. D5 – Calibration Data Report 5 Years (with Option C5).

Opt. R3 – Repair Service 3 Years.

Opt. R5 – Repair Service 5 Years.

Opt. IN – Product Installation Service.

Included Accessories

Mini Keyboard.

Optical Wheel Mouse.

Front Panel Cover – (200-4651-00).

Probe Retainer Bracket – (407-4435-01).

Accessory Pouch – (016-1935-00).

Mouse Pad – (016-1524-04).

TLA5000 Series Product Software CD – (063-3487-02).

TLA5000 Series Operating System Restore CD – (063-3672-00).

TLA Documentation CD – (063-3671-00).

TLA5000 Quick Installation Reference – (071-1302-00).

TLA V4.3 User Manual – (071-0863-03).

TLA5000 Installation Manual – (071-1301-00).

Certificate of Traceable Calibration.

Power Cord.

Recommended Accessories

Logic Analyzer Cart – LACART, K4000.

TLA5000 Rackmount Kit – (016-1887-00).

TLA5000 Wheeled Transport Case – (016-1937-00).

TLA7QS – TLA Family training package. (TLA configuration required: 102 channels).

TLA7QS Technical Reference Support Kit – (020-2211-02).

TLA7QS Quickstart Training Manual – (070-9717-05).

TLA5000 Service Manual – (071-1305-00).

TLACAL1 – TLA520x Performance Verification and Adjustment Fixture.

Power Cord Options

TLA5000 International Power Plugs

Opt. A0 – US Plug, 115 V, 60 Hz (161-0104-00).

Opt. A1 – Euro Plug, 220 V, 50 Hz (161-0104-06).

Opt. A2 – UK Plug, 240 V, 50 Hz (161-0104-07).

Opt. A3 – Australian Plug, 240 V, 50 Hz (161-0104-05).

Opt. A4 – N. American Plug, 240 V, 50 Hz (161-0104-08).

Opt. A5 – Swiss Plug, 220 V, 50 Hz (161-0167-00).

Opt. A6 – Japan Plug, (161-A005-00).

Opt. A10 – China Plug, 50 Hz (161-0306-00).

Opt. A99 – No Power Cord.

Software

TLA5000 Series Product Software CD – (063-3487-02).

TLA5000 Series Operating System Restore CD – (063-3672-00).

Other

Language Options for User Manuals

Opt. L0 – English Manuals.

Opt. L10 – Russian Manuals.

Opt. L99 – No Manuals.

Our most up-to-date product information is available at:
www.tektronix.com

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