

Digital Phosphor Oscilloscopes

► TDS7254



Performance, Simplicity and Connectivity

The TDS7254 oscilloscope is a high-performance solution for verification, debug and characterization of sophisticated electronic designs. It features exceptional signal acquisition performance, operational simplicity and open connectivity to the design environment. Classic analog-style controls, a large touch-sensitive display and graphical menus provide intuitive control. Open access to the Microsoft Windows operating system enables unprecedented customization and extensibility.

P7000 Series Probes (P7240 4 GHz active probe and P7330 3.5 GHz differential probe) are directly compatible with the TDS7254's TekConnect™ signal interconnect system. This replaces BNC input connectors with a positive-locking interface suitable for higher system bandwidths.

► Characteristics

Vertical System

Input Channels – 4.

Analog Bandwidth (–3 dB) – 2.5 GHz.

Calculated Rise Time – 160 ps typical.

Input Coupling – DC, Gnd.

Input Impedance – 50 Ω \pm 2.5%.

Input Sensitivity – 2 mV/div to 1 V/div.

Timebase System

Timebase Range – 50 ps – 10 s/div.

Time Interval Accuracy – (0.06/sample rate + 2.5 ppm * {reading}) RMS.

Trigger Jitter (RMS) – 6 ps_{RMS} typical.

Acquisition System

Real-time Sample Rates – 1/2/3-4 Channels:
20/10/5 GS/s.

Max Record Length per Channel –

With option 4M: 32 M (1 ch), 16 M (2 ch), 8 M (4 ch).

With option 3M: 16 M (1 ch), 8 M (2 ch), 4 M (4 ch).

With option 2M: 8 M (1 ch), 4 M (2 ch), 2 M (4 ch).

With option 1M: 2 M (1 ch), 1 M (2 ch), 500 k (4 ch).

Standard: 400 k (1 ch), 200 k (2 ch), 100 k (4 ch).

Maximum Waveform Capture Rate –

400,000 wfms/sec.

► Features & Benefits

2.5 GHz Bandwidth

Up to 20 GS/s Real-time Sample Rate

Up to 32 Megasamples Memory Depth

>400,000 wfms/second Maximum Waveform Capture Rate

Jitter Measurements to 1.5 ps_{RMS}

Graphical User Interface

Control via Classic Direct Controls, Touch-sensitive Color Display or Mouse Navigation

Open Microsoft Windows® Environment

Built-in Networking

► Applications

Verification, Debug and Characterization

Signal Integrity Measurements

Jitter and Timing Analysis

Spectral Analysis

Disk Drive Analysis

Investigation of Transient Phenomena

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Trigger System

Please refer to TDS7404.

Display Characteristics

Please refer to TDS7404.

Computer System and Peripherals

Please refer to TDS7404.

Input/Output Ports

Please refer to TDS7404.

Power Source

Please refer to TDS7404.

▶ Ordering Information

TDS7254

2.5 GHz Digital Phosphor Oscilloscope.

Includes: Accessory pouch, front cover, mouse, probe calibration and deskew fixture (067-0405-00), Quick Reference (020-2368-00), User Reference (071-0879-01), GPIB Programmer's Reference, TDS7000 Series Product Software CD-ROM, TDS7000 Series operating system restoration CD-ROM, Performance verification procedure PDF file, NIST, MIL-STD-45662A and ISO9000 Calibration Certificate, Power Cord.

TDS7254 also includes: (4) TekConnect to BNC adapters (TCA-BNC).

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