

TEKTRONIX

TDS544A

The Tektronix TDS544A is a 4-channel, 500 MHz digital oscilloscope from the TDS500A series. It features a maximum real-time sample rate of 1 GS/s on a single channel (250 MS/s on all four simultaneously) and incorporates Tektronix's NuColor CRT display technology for distinctive multi-color trace visualization.

SPECIFICATIONS

General

Interfaces	GPIO (IEEE-488.2)
Display	7-inch color NuColor CRT

Physical

Operating Temperature	+5 °C to +50 °C °C
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Vertical System

Analog Channels	4
Bandwidth	500 MHz
Calculated Rise Time	700 ps
Vertical Resolution	8 bits (up to 12 bits in High Resolution mode)
Vertical Sensitivity Range	1 mV/div to 10 V/div
Input Impedance	1 MΩ 10 pF, or 50 Ω
Input Coupling	AC, DC, GND
DC Gain Accuracy	±1%

Horizontal System

Maximum Real-Time Sample Rate	1 GS/s (1 channel), 500 MS/s (2 channels), 250 MS/s (4 channels)
Timebase Range	500 ps/div to 10 s/div

Triggering System

Trigger Modes	Auto, Normal, Single
Trigger Coupling	DC, AC, Noise Reject, HF Reject, LF Reject

Measurements and Math

Cursor Types	H-Bars, V-Bars, Paired
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Connectivity and Interfaces

Remote Control Interfaces	GPIO (IEEE-488.2)
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Analog Inputs

Maximum Input Voltage (1 MΩ)	400 V (DC + peak AC)
Maximum Input Voltage (50 Ω)	5 V RMS

Display

Display Technology	7-inch Color CRT (NuColor liquid crystal shutter)
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Power

Mains Input Voltage	90 to 250 VRMS
Maximum Power Consumption	300 W

Environmental

Operating Altitude	Up to 4,500 m (15,000 ft)
Non-operating Altitude	Up to 12,000 m (40,000 ft)

TECHNOLOGY

Digital

APPLICATIONS

General Purpose / Debugging

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.