

TEKTRONIX

TDS8000

The Tektronix TDS8000 is a high-performance Digital Sampling Oscilloscope featuring a modular architecture that supports up to eight channels. Designed for high-speed telecom and datacom testing, it delivers bandwidths up to 50 GHz (module dependent) along with exceptional trigger jitter performance and horizontal timebase stability. The system runs on a Microsoft Windows-based graphical user interface with a 10.4-inch display, combining high measurement resolution and repeatability with a comprehensive suite of automatic measurements.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488.2), LAN (Ethernet), RS-232, Parallel Port, VGA Out, PS/2 Keyboard/Mouse
Display	10.4 in. Active-matrix color LCD

Physical

Power Supply	100 to 240 V AC $\pm 10\%$, 50 to 60 Hz
Operating Temperature	10 to 40 °C °C
Dimensions (W×H×D)	455 mm × 343 mm × 419 mm mm
Weight	19.1 kg (without modules) kg

Vertical System

Analog Bandwidth (-3 dB)	DC to 50 GHz (module dependent)
Number of Input Channels	Up to 8 channels (modular)
Vertical Resolution (ADC)	14 bits
Module Slots	4 small form-factor slots
Supported Modules	8000 Series (80E00 electrical and 80C00 optical modules)

Display and User Interface

Display Size	10.4 in.
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Processor and Storage

Operating System	Microsoft Windows
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Trigger System

Trigger Jitter	< 1.0 ps RMS (typical)
Direct Trigger Frequency Range	DC to 3 GHz
Prescaled Trigger Frequency Range	2 GHz to 10 GHz

Physical Characteristics

Form Factor	Modular Mainframe
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Horizontal System

Timebase Range	2 ps/div to 5 ms/div
Record Length	20 to 4000 points
Horizontal Resolution	10 fs

Environmental

Storage Temperature Range	-22 °C to +60 °C
Operating Humidity Range	20% to 80% RH (non-condensing)
Operating Altitude	3,000 m
Non-Operating Altitude	12,190 m

Acquisition System

Maximum Acquisition Rate	200 kS/s
Acquisition Modes	Sample, Average, Envelope

Math & Measurements

Mathematical Waveform Functions	Add, Subtract, Multiply, Divide, Differentiate, Integrate, FFT, Algebraic Expressions
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Storage

Storage Media	Internal Hard Disk Drive, 3.5 in 1.44 MB Floppy Drive, CD-ROM Drive
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TECHNOLOGY

Digital Sampling

APPLICATIONS

High-speed optical and electrical signal analysis, telecom/datacom testing, and jitter analysis

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