

TEKTRONIX

TDS6604

The Tektronix TDS6604 is a high-performance 4-channel Digital Storage Oscilloscope (DSO) offering a 6 GHz analog bandwidth and up to 20 GS/s real-time sample rate. Designed for advanced signal integrity, debugging, and characterization, it features the TekConnect probe interface, a Windows-based operating system, and a comprehensive suite of advanced triggering and analysis tools.

SPECIFICATIONS

Vertical System

Analog Bandwidth	6 GHz
Calculated Rise Time (10% to 90%)	70 ps
Number of Channels	4
Vertical Resolution	8 bits (>11 bits with averaging)

Horizontal System

Real-Time Sample Rate (2 Channels)	20 GS/s
Real-Time Sample Rate (4 Channels)	10 GS/s

Trigger System

Pulse Width Triggering	Triggers on width of positive or negative pulses
Runt Triggering	Triggers on pulses crossing one threshold but not a second
Setup/Hold Triggering	Triggers on setup/hold violations
Transition Time Triggering	Triggers on pulse edge rates (rise/fall)
Window Triggering	Triggers on entering or exiting a window voltage
Pattern and State Triggering	Triggers on logical combinations of channels

Acquisition and Signal Processing

Waveform Math	Basic arithmetic, calculus, advanced expressions
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Computer System & Storage

Operating System	Windows-based
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Connectivity & I/O Ports

Input Connector Type	TekConnect (TCA) Interface
GPIO Interface	IEEE 488.2 compatible
LAN Interface	RJ-45, 10/100 Base-T
Serial Port	DB-9 male, RS-232
Keyboard/Mouse Ports	PS/2

Environmental & Compliance

Operating Altitude	Up to 3,000 m (10,000 ft)
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Triggering System

Trigger Holdoff Range	250 ns to 12 s
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Environmental

Cooling Clearance	3 in. (76 mm) on left, right, and rear
Operating Vibration	0.22 g RMS (5 Hz to 500 Hz)
Non-Operating Vibration	2.28 g RMS (5 Hz to 500 Hz)
Operating Wet Bulb Temperature	29 °C maximum
Non-Operating Wet Bulb Temperature	38 °C maximum

Options & Upgrades

Option SM	Serial Mask Testing
Option ST	Serial Pattern Triggering
Option 1R	Rackmount Kit

TECHNOLOGY

Digital Storage Oscilloscope (DSO)

APPLICATIONS

High-speed digital design, signal integrity, and serial data 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.