

TEKTRONIX

TDS620B

The Tektronix TDS620B is a high-performance digital real-time oscilloscope featuring a 500 MHz bandwidth and a real-time sampling rate of 2.5 GS/s across 4 channels. Equipped with an 8-bit vertical resolution (expandable to over 11 bits with averaging), 15,000 points of record length, and advanced trigger capabilities, it is designed for demanding high-speed digital design and debug applications.

SPECIFICATIONS

General

Interfaces	RS-232, Centronics, GPIB, VGA
Display	Monochrome CRT Display

Physical

Power Supply	90 to 250 V AC RMS, 45 Hz to 440 Hz, <= 350 W
Dimensions (W×H×D)	445 mm × 193 mm × 444 mm mm
Weight	14.1 kg kg

Vertical System

Analog Bandwidth (-3 dB)	500 MHz
Number of Input Channels	2
Vertical Resolution (ADC)	8-Bit
Vertical Resolution with Averaging	Greater than 11-Bits
Input Sensitivity Range	1 mV/div to 10 V/div
DC Gain Accuracy	±1.5%
Channel-to-Channel Deskew	Yes
Input Impedance	50 Ω
Input Coupling	DC, GND
Maximum Input Voltage	5 V RMS, with peaks <= ±25 V (50 Ω input impedance)
Position Range	±5 divisions
Analog Bandwidth Limit	20 MHz (selectable)
Vertical Offset Range	±1 V (1 mV to 99.5 mV/div), ±10 V (100 mV to 995 mV/div), ±100 V (1 V to 10 V/div)
Channel-to-Channel Isolation	≥100:1 at 100 MHz, ≥30:1 at 500 MHz

Horizontal System

Maximum Real-Time Sampling Rate	2.5 GS/s
Maximum Record Length	15,000 Points
Timebase Range	100 ps/div to 5 s/div
Timebase Accuracy	±100 ppm
Timebase Delay Range	Pre-trigger: 0% to 100% of record; Post-trigger: 0 to 10,000 divisions

Acquisition System

Acquisition Modes	Sample, Envelope, Average
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Waveform Measurements and Analysis

Waveform Math & Advanced DSP	Waveform Math and Advanced Waveform DSP
Limit and Mask Testing	Waveform Pass/Fail Template Testing
Measurement System	Fully Automated Measurement System

Processor and Storage

Removable Storage Options	3.5 in. DOS Format Floppy Drive
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Environmental

Maximum Altitude	Operating: 4,572 m (15,000 ft), Non-operating: 12,190 m (40,000 ft)
Operating Humidity	To 95% RH at or below +30 °C; to 75% RH up to +40 °C; to 45% RH up to +50 °C

Trigger System

Trigger Types	Edge, Pulse (Glitch, Width, Runt, Slew Rate, Setup/Hold), Logic (Pattern, State), Video
Trigger Coupling	AC, DC, HF Reject, LF Reject, Noise Reject
Trigger Level Range	±12 divisions from center of screen

Compliance & Safety

Safety Standards	UL 3111-1, CSA C22.2 No. 1010.1, EN 61010-1
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TECHNOLOGY

Digital Real-Time Oscilloscope

APPLICATIONS

Electronic Test and Measurement

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