

TEKTRONIX

TDS8200

The Tektronix TDS8200 is a modular, high-performance Digital Sampling Oscilloscope designed for research, design evaluation, and manufacturing testing of high-speed signals. Running on MS Windows 2000, the TDS8200 supports up to 8 signal channels, TDR/TDT analysis, and bandwidths extending from 2 to 60 GHz depending on the installed sampling modules.

SPECIFICATIONS

General

Interfaces	LAN (10/100 Base-T Ethernet), GPIB (IEEE-488.2), RS-232-C, Centronics Parallel, USB, VGA, PS/2 Mouse/Keyboard
Display	10.4-inch active-matrix color TFT LCD, 640 × 480 resolution, touchscreen

Physical

Power Supply	90 to 250 V AC, 45 to 440 Hz, < 290 W power consumption
Operating Temperature	10 to 40 °C °C
Dimensions (W×H×D)	457 × 343 × 419 mm mm
Weight	20.5 kg

Vertical System

Number of Slots	4 module slots
Number of Input Channels	Up to 8 channels (2 channels per slot)
Vertical Resolution (ADC)	14-bit
TDR Reflected Rise Time	≤ 35 ps
True Differential TDR/TDT Support	Up to 4 differential pairs for TDR/TDT/Crosstalk
Input Impedance	50 Ω (module dependent)

Horizontal System

System Jitter (Phase Reference Mode)	< 200 fs RMS
System Jitter (Standard Direct Trigger)	< 1.2 ps RMS + 10 ppm of position
Record Length	50 to 4000 points per channel (up to 16000 points optional)
Horizontal Scale Range	2 ps/div to 5 ms/div
Timebase Resolution	10 fs

Trigger System

Trigger Modes	Conventional Free Run, Triggered
Trigger Sensitivity (Direct Input)	≤ 100 mV p-p at 100 MHz to 400 mV p-p at 3.0 GHz
External Trigger Input Impedance	50 Ω
External Trigger Connector	SMA female
Direct Trigger Frequency Range	DC to 3 GHz
Prescaled Trigger Frequency Range	2 GHz to 12.5 GHz
External Trigger Input Range	±1.0 V
External Trigger Maximum Input Level	±2.0 V

Acquisition System

Acquisition Modes	Sample, Envelope, Average, FrameScan™
Waveform Databases	Four Color Graded Variable Persistence databases

Processor and Storage

Operating System	MS Windows 2000 Operating System
Internal Storage	Internal Hard Disk Drive, CD-ROM Drive, 3.5-inch 1.44 MB Floppy Drive

Environmental Specifications

Storage Temperature Range	-22 °C to +60 °C
Operating Humidity Range	20% to 80% RH (non-condensing)
Operating Altitude	Up to 3,000 m (9,843 ft)

Physical Characteristics

Form Factor	Benchtop (Rackmount optional)
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Compliance and Standards

Calibration Interval	1 Year
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Compatibility

Supported Modules	Tektronix 8000 Series sampling modules
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Interfaces & Connectivity

GPIB Interface	IEEE-488.2
LAN Port	RJ-45 (10/100 Base-T)
Serial Port	9-pin D-sub, RS-232
Parallel Port	25-pin D-sub (Centronics)

Storage & Media

Floppy Disk Drive	3.5 inch, 1.44 MB
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Power & Electrical

Power Consumption	290 W max
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TECHNOLOGY

Digital Sampling

APPLICATIONS

High-Speed Serial Data Analysis, Semiconductor Testing, TDR/TDT, Crosstalk Analysis

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