

TEKTRONIX

TDS5104B

The Tektronix TDS5104B is a 4-channel Digital Phosphor Oscilloscope (DPO) from the TDS5000B Series, delivering 1 GHz bandwidth and a maximum real-time sample rate of 5 GS/s. Powered by the OpenChoice platform running Windows 2000, it features a maximum waveform capture rate of 100,000 wfms/s, record lengths up to 16 M (configuration dependent), and productivity enhancements like MyScope custom control windows and touch-screen operation.

SPECIFICATIONS

General

Interfaces	10/100Base-T LAN, USB, GPIB, RS-232, Centronics, VGA Output
Display	10.4-inch color XGA TFT-LCD touch screen

Physical

Power Supply	100 to 240 VAC $\pm 10\%$, 47 to 63 Hz; 115 VAC $\pm 10\%$, 360 to 440 Hz
Operating Temperature	+5 °C to +45 °C °C

Vertical System

Input Channels	4
Analog Bandwidth	1 GHz
Calculated Rise Time	400 ps
Input Coupling	AC, DC, GND
Vertical Resolution	8 bits (11 bits with HiRes)
Maximum Input Voltage (50 Ω)	5 Vrms, with peaks $\leq \pm 24$ V
DC Gain Accuracy	$\pm 1.5\%$
Vertical Sensitivity (1 M Ω)	1 mV/div to 10 V/div
Vertical Sensitivity (50 Ω)	1 mV/div to 1 V/div
Position Range	± 5 divisions

Horizontal System

Time Base Range	200 ps/div to 1000 s/div
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Acquisition System

Maximum Real-Time Sample Rate	5 GS/s
Maximum Record Length	Up to 16 M (configuration dependent)
Maximum Waveform Capture Rate	100,000 wfms/s
Acquisition Modes	Sample, Peak Detect, HiRes, Envelope, Average, Waveform Database

Trigger System	
Standard Trigger Types	Edge, Glitch, Runt, Window, Width, Transition Time, Timeout, Pattern, Video, State, Setup/Hold
Trigger Level Range	±8 divisions from center of screen
Display System	
Display Type	Liquid crystal active-matrix color TFT touch screen
Display Size	10.4 inch
Display Resolution	1024 x 768 pixels (XGA)
Computer System and Storage	
Operating System	Windows 2000
Software Platform	OpenChoice Platform
Control Interface	MyScope Custom Control Windows, Right Mouse Click Menus
Environmental	
Operating Altitude	Up to 3,000 m (9,843 ft)
Compliance	
Safety Standards	UL 61010-1, EN 61010-1
Inputs & Outputs	
Probe Interface	TekProbe Level II (BNC)
Measurements & Analysis	
Automated Measurements	53 parametric measurements
Measurement Statistics	Mean, Min, Max, Standard Deviation
Waveform Math	Add, subtract, multiply, divide, integrate, differentiate, FFT
TECHNOLOGY	
Digital Phosphor Oscilloscope (DPO)	
APPLICATIONS	
General-purpose electronic design, debug, validation, and 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.