

TEKTRONIX

TDS3064B

The Tektronix TDS3064B is a 4-channel, 600 MHz Digital Phosphor Oscilloscope (DPO) from the TDS3000B series. Combining a high-speed real-time sample rate of 5.0 GS/s per channel with a continuous waveform capture rate of 3,600 wfms/s and standard Ethernet connectivity, it provides exceptional insight into fast, complex signals in a lightweight, battery-capable package.

SPECIFICATIONS

Trigger System

Internal Trigger Level Range	±8 divisions from center of screen
Trigger Holdoff Range	250 ns to 8 s

Waveform Measurements and Analysis

Automatic Measurements	25 standard measurements (including Period, Frequency, +Width, -Width, Rise Time, Fall Time, +Duty Cycle, -Duty Cycle, +Overshoot, -Overshoot, High, Low, Max, Min, Peak-to-Peak, Amplitude, Mean, Cycle Mean, RMS, Cycle RMS, Area, Cycle Area, Phase, Delay)
Cursor Types	Amplitude, Time
Waveform Math Operators	Add, Subtract, Multiply, Divide
FFT Windows	Rectangular, Hanning, Hamming, Blackman-Harris

Display and User Interface

Display Type	Color active-matrix TFT LCD
Display Size	6.4 in (162.6 mm) diagonal
Display Resolution	640 x 480 pixels (VGA)

Connectivity and Interfaces

LAN Interface	Built-in 10Base-T Ethernet port (RJ-45)
Printer Port	Centronics parallel port (DB-25)
VGA Output	Via optional TDS3GV module
GPIO Interface	Via optional TDS3GV module (IEEE 488.2)
RS-232 Interface	Via optional TDS3GV module (DB-9 male)

Storage and Memory

Internal Waveform Storage	4 waveforms
Internal Setup Storage	10 setups
Removable Storage Media Type	3.5-inch 1.44 MB floppy disk drive

Power System

Battery Operation Support	Optional rechargeable Li-Ion battery pack (TDS3BATB)
Battery Run Time	Up to 3 hours (continuous use without line power)

Environmental and Safety

Non-Operating Temperature	-20 °C to +60 °C
Relative Humidity Range	Up to 95% RH at or below +30 °C, up to 45% RH up to +50 °C
Operating Altitude	Up to 3,000 m (10,000 ft)
Non-Operating Altitude	Up to 15,000 m (50,000 ft)

Physical Characteristics

Instrument Width	375 mm (14.8 in)
Instrument Height	176 mm (6.9 in)
Instrument Depth	149 mm (5.9 in)
Net Weight	3.2 kg (7.0 lbs) without battery
Weight with Battery	4.5 kg (9.8 lbs)

Application Modules and Upgrades

Limit Testing Module Compatibility	TDS3LIM
Telecommunications Mask Testing Module Compatibility	TDS3TMT
Extended Video Analysis Module Compatibility	TDS3VID
Advanced Analysis Module Compatibility	TDS3AAM
Digital Video Module Compatibility	TDS3SDI (601 Serial Digital Video)
Probe Interface Type	TekProbe Interface

Power Specifications

Line Voltage Range	100 V to 240 V AC ($\pm 10\%$)
Line Frequency Range	47 Hz to 440 Hz
Power Consumption	75 W maximum

Standard Accessories

Included Probes	Four P6139A 10X Passive Probes
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Signal Output

Probe Compensator Output Amplitude	5.0 V into $\geq 1\text{ M}\Omega$ load
Probe Compensator Output Frequency	1 kHz

Environmental

Operating Vibration	0.31 g RMS, 5 Hz to 500 Hz
Non-operating Vibration	2.46 g RMS, 5 Hz to 500 Hz
Operating Shock	50 g, 11 ms, half-sine

Storage

Floppy Disk Capacity

1.44 MB (3.5-inch MS-DOS compatible)

TECHNOLOGY

Digital Phosphor Oscilloscope (DPO)

APPLICATIONS

Electronic Design and Debug, Manufacturing Test, Video Design and Service, Power Supply Design, Education and Training

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