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Product specs for Tektronix TDS540



Product Description:

Tektronix TDS540 Oscilloscope, Digital: 500MHz,1GSa/s,4ch (Stand alone)

The Tektronix TDS540 oscilloscope is a graph-displaying device – it draws a graph of an electrical signal. In most applications, the graph shows how signals change over time: the vertical (Y) axis represents voltage and the horizontal (X) axis represents time. The intensity or brightness of the display is sometimes called the Z axis.

The Tektronix TDS540 oscilloscope's simple graph can tell you many things about a signal, such as: the time and voltage values of a signal, the frequency of an oscillating signal, the “moving parts” of a circuit represented by the signal, the frequency with which a particular portion of the signal is occurring relative to, other portions, whether or not a malfunctioning component is distorting the signal, how much of a signal is direct current (DC) or alternating current (AC) and how much of the signal is noise and whether the noise is changing with time.

Performance Characteristics of the TDS540

Form Factor	Benchtop
Bandwidth	500 MHz
Number of Channels	4 ch
Simultaneous Channels	4 ch
Simultaneous Maximum Sampling Rate/ch	250 MSa/s
One ch. only max. sampling rate	1 GSa/s
Max. Record Length	15000 pt/sec
Min. Vertical Sensitivity	1 mV/div
Maximum Vertical Sensitivity	10 V/div

Number of Bits	8 bits
Input Impedance	1 MOhm
Input Impedance (alternate)	50 Ohm
Input Coupling	AC,DC,GND
Maximum Input Voltage	400 Vrms
Main time base - lowest	500 ps/div
Main time base - highest	10 s/div
Timebase accuracy	.005 %
Trigger Source	Internal
Trigger Modes	Auto,Edge,Logic,Normal,Pulse,Single
Minimum Glitch Trigger	2 ns
Display Size	17.78 cm
Display modes	Dot,Persistence,Vector
Display Update Rate	150 wv/sec

Programmability/Connectivity of the TDS540

User Interface	Proprietary
Test Pattern Storage	10 Patterns
Novram data storage	Yes
Programming Language	GPIB

TDS540 AppNotes

[The XYZ's of Oscilloscopes](#)

TDS540 Life Cycle Data

Out of Production Nov-01-2000

TDS540 Compliance

CE Compliance	Compliant
UL Compliance	Compliant

TDS540 Power Requirements

Input Power Universal (Auto Sense and Switch)

TDS540 Physical Dimensions

[Width: 445 mm\(17.51 in\)](#)

[Height: 193 mm\(7.59 in\)](#)

[Length: 432 mm\(17 in\)](#)

[Weight: 12.3 kg\(27.11 lb\)](#)

Options for TDS540

Option	US List Price
05 / VIDEO TRIGGER HDTV ENHANCED VID	\$1,495
13 / RS-232/Centronics	\$495
1C / TELCOM TEMPLATE TELECOMMUNICATI	\$499
1F / 3.5" Disk Drive	\$495
1K / Model K420 Instrument Cart	\$730
1M / 50K Memory Length	\$1,950
1R / Rackmount Kit	\$400
23 / Add 2 P6205 Active probes	\$1,190
25 / ADD 4 SMD PROBE P6563AS 20X 500	\$800
2F / EXTENDED WAVEFORM MATH	\$995
3P / TEK Phaser Color Inkjet Printe	\$1,750
4D / Delete 4 each standard probes	No Charge

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TDS540 Standard Accessories

[070-8316-01 /Reference Card /Qty:1](#)
[070-8317-01 /User Manual /Qty:1](#)
[070-8318-04 /Programmer Manual /Qty:1](#)
[200-3696-00 /Front Cover /Qty:1](#)
[P6139A /500MHz Passive probes /Qty:4](#)

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