

► Brilliantly Engineered. Irresistibly Priced.



# OSCILLOSCOPE

## Selection Chart

For answers to your questions, and further assistance in choosing the right Tektronix oscilloscope, probes and accessories for your needs, call your local authorized Tektronix representative now. Or visit [www.tektronix.com/oscilloscopes](http://www.tektronix.com/oscilloscopes).

► Oscilloscope Selection Made Easy

	Channels	Bandwidth	Rise Time	Sample Rate (Real-time)	Oscilloscope Type	Record Length (Max)	Trigger Types	Connectivity and Storage	Waveform Math and Analysis	Applications
<b>TDS5000B Series</b>	2, 4	350 MHz to 1 GHz	1.15 ns to 300 ps	1 GS/s to 5 GS/s	DPO	16 M	-Edge -Logic -Pulse -Video -Window -Timeout -Transition -Setup/Hold -Trigger Delay by time/events -Comm <sup>1</sup>	-RS-232 -GPIB -Centronics -Floppy Disk -Ethernet -USB -PCMCIA -CD-ROM -OpenWindows platform	-Simple and advanced waveform math -Spectral -Compatibility with MS Windows analysis and documentation software	-Digital design and debug -Investigation of transient phenomena -Power measurements -Video design and debug -DVD analysis
<b>TDS3000B Series</b>	2, 4	100 MHz to 600 MHz	3.5 ns to 600 ps	1.25 GS/s to 5 GS/s	DPO	10 kB	-Edge -Logic -Pulse -Video -Comm <sup>2</sup>	-Ethernet (10Base-T) -Centronics -RS-232 <sup>3</sup> -GPIB <sup>3</sup> -Floppy Disk	-Simple and advanced <sup>4</sup> waveform math -FFT -Easy connection to TDSPCS1 OpenChoice® software and MS Windows software <sup>3</sup>	-Telecomm mask testing and manufacturing -Digital troubleshooting -Video design and service -Power supply design
<b>TPS2000 Series</b>	2, 4 Isolated	100 MHz to 200 MHz	3.8 ns to 2.1 ns	1 GS/s to 2 GS/s	DSO Isolated	2.5 kB	-Edge -Pulse -Video	-RS-232 -Centronics -CompactFlash	-Simple waveform math -FFT -Easy connection to TDSPCS1 OpenChoice® software and MS Windows software	-Industrial power design and installation -Advanced electronics design and installation -Education -Automotive
<b>TDS2000 Series</b>	2, 4	60 MHz to 200 MHz	5.83 ns to 2.1 ns	1 GS/s to 2 GS/s	DSO	2.5 kB	-Edge -Pulse -Video	-RS-232 <sup>3</sup> -GPIB <sup>3</sup> -Centronics <sup>3</sup> -CompactFlash <sup>3</sup>	-Simple waveform math -FFT -Easy connection to TDSPCS1 OpenChoice® software and MS Windows software <sup>3</sup>	-Service and repair -Education and training -Manufacturing test and quality control -Design and debug
<b>TDS1000 Series</b>	2	40 MHz to 100 MHz	5.83 ns to 3.5 ns	1 GS/s	DSO	2.5 kB	-Edge -Pulse -Video	-RS-232 <sup>3</sup> -GPIB <sup>3</sup> -Centronics <sup>3</sup> -CompactFlash <sup>3</sup>	-Simple waveform math -FFT -Easy connection to TDSPCS1 OpenChoice® software and MS Windows software <sup>3</sup>	-Service and repair -Education and training -Manufacturing test and quality control -Design and debug
<b>THS700 Series</b>	2 Isolated	100 MHz to 200 MHz	3.5 ns to 1.75 ns	500 MS/s to 1 GS/s	DSO Isolated	2.5 kB	-Edge -Pulse -Video -Motor	RS-232	-Simple waveform math	-Power harmonic measurements -Installation maintenance and repair

Specifications may vary based on the model selected within the product families listed above.

<sup>1</sup> Requires Opt. SM.  
<sup>2</sup> Requires TDS3TMT module.  
<sup>3</sup> Optional.  
<sup>4</sup> Requires TDS3AAM module.

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### ▶ TDS5000B Series Software

TDSPWR3	Power measurement software
TDSJIT3	Jitter and timing analysis software with Rj/Dj and BER
TDSJIT3E	Jitter and timing analysis software essentials
TDSET3	Ethernet compliance-test software
TDSUSBS	USB 2.0 compliance test software
TDSDDM2	Disk-drive measurement software
TDSCPM2	ANSI/ITU telecom pulse compliance-test software

### ▶ TDS3000B Series Option and Accessories

Option PB	Available on all TDS3014B, TDS3024B, TDS3034B, TDS3044B, TDS3054B and TDS3064B models. Includes TDS3GV Communication Module and TDSPCS1 OpenChoice® Software, TDS3AAM Advanced Analysis Module and TDS3LIM Limit Testing Module.
TDS3GV Communication Module	GPIO, VGA and RS-232 interfaces. Includes TDSPCS1 OpenChoice® software.
TDS3AAM Advanced Analysis Module	Adds extended math capability, arbitrary math expressions, measurement statistics and additional automated measurements
TDS3LIM Limit Testing Module	Offers fast, accurate Go/No Go verification that tested circuits are operating within intended parameters
TDS3TMT Telecommunications Mask Testing Module	Pass/Fail compliance testing of ITU-T G.703 and ANSI T1.102 standards, custom mask editing and more
TDS3VID Extended Video Editing Module	Adds Video QuickMenu, Autoset, Holdoff, Line Count Trigger, Video Picture mode, Vectorscope mode, HDTV format triggering, graticules and more
TDS3SDI 601 Serial Digital Video Module	Identify and analyze ITU-R BT.601 video signals, video picture mode with bright line select, vectorscope mode, HDTV format triggering and more
TDS3BATB	Battery pack for up to 3 hours of continuous operation without line power
TDS3PRT	Plug-in printer adds easy, portable documentation capability, even when operating on battery power
AC3000	Soft carrying case
HCTEK321	Hard carrying case
RM3000	Rackmount kit

### ▶ TPS2000 Series Accessories

TPS2PBND Power Bundle	Includes (4) P5120 passive, high-voltage probes and TPS2PWR1 power measurement and analysis software
TPS2PWR1 Power Software	Offers instantaneous power waveform analysis, waveform analysis, harmonics analysis, switching loss, phase angles, dv/dt and di/dt cursors
TPSBAT	Battery pack for up to 4 hours battery operation. Optional second battery offers hot-swappability for 8+ hours continuous battery operation
TPSCHG	External battery charger
HCTEK321	Hard carrying case
AC2100	Soft carrying case

### ▶ TDS2000 and TDS1000 Series Accessories

TDS2MEM Storage & Communications Module <sup>8</sup>	CompactFlash mass storage, RS-232 and Centronics interfaces, includes CompactFlash to USB memory card reader, RS-232 cable and TDSPCS1 OpenChoice® software
TDS2CMAX Communications Module	RS-232, Centronics and GPIB interfaces. Includes RS-232 cable and TDSPCS1 OpenChoice® software
AC2100	Soft carrying case
HCTEK321	Hard carrying case
RM2000	Rackmount kit

### ▶ TDS3000B, TPS2000, TDS2000 and TDS1000 Series Software

TDSPCS1 OpenChoice® Software	A collection of applications that enables fast and easy documentation and analysis of measurement results <sup>1</sup>
WaveStar™ Software	Offers live remote waveform reproduction, active remote control of oscilloscope-specific settings, advanced measurement and power harmonics analysis

### ▶ Complete Probe Solutions

Passive Probes	P2200 - 1/10X, 7 MHz/200 MHz passive probe P3010 - 10X, 100 MHz passive probe P6101B - 1X, 15 MHz passive probe P6139A - 10X, 500 MHz passive probe
Low-capacitance Probes	P6158 - 20X, 3 GHz low-capacitance probe
Active Probes	P6205 - 10X, 750 MHz active probe <sup>3</sup> P6243 - 10X, 1 GHz active probe <sup>2</sup>
Differential Probes	P6246 - 1X/10X, 400 MHz differential probe <sup>2</sup> P6247 - 1X/10X, 1 GHz differential probe <sup>2</sup> ADA400A - 100X/10X/1X/0.1X, 1 MHz differential preamplifier <sup>2,4</sup>
Current Probes	A621 - 1000 A <sub>RMS</sub> , 50 kHz current probe A622 - 70 A <sub>RMS</sub> , 100 kHz current probe AM5030S - 500 A DC, 100 MHz current probe system CT2 - 3.5 A <sub>RMS</sub> , 200 MHz current probe P6021 - 7 A <sub>RMS</sub> , 60 MHz current probe P6022 - 3 A <sub>RMS</sub> , 120 MHz current probe TCP202 - 15 A, DC to 50 MHz current probe <sup>2</sup> TCP312 - 30 A, DC to 100 MHz current probe <sup>5</sup> TCP305 - 50 A, DC to 50 MHz current probe <sup>5</sup> TCP303 - 150 A, DC to 15 MHz current probe <sup>5</sup> TCP404XL - 750 A, DC to 2 MHz current probe <sup>3</sup>
High-voltage Probes	P5100 - 100X, 250 MHz, passive high-voltage probe P5120 - 20X, 200 MHz, passive high-voltage probe P6015A - 1000X, 75 MHz passive high-voltage probe P5200 - 50X/500X, 25 MHz, high-voltage differential probe <sup>7</sup> P5205 - 50X/500X, 100 MHz, high-voltage differential probe <sup>3</sup> P5210 - 100X/1000X, 50 MHz high-voltage differential probe <sup>3</sup>

<sup>1</sup> Standard with the TPS2000 Series.

<sup>2</sup> Requires 1103 TEKPROBE power supply when used with TDS1000, TDS2000, TDS3000B or TPS2000 Series.

<sup>3</sup> Requires 1103 TEKPROBE power supply when used with TDS1000, TDS2000 or TPS2000 Series.

<sup>4</sup> Bandwidth limits: 100 Hz, 3 kHz and 100 kHz.

<sup>5</sup> Used with TCPA300 amplifier.

<sup>6</sup> Used with TCPA400 amplifier.

<sup>7</sup> Not compatible with TPS2000 Series.

<sup>8</sup> Not compatible with TDS1001 or TDS2004.

### For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of oscilloscopes, probes and other software options.

Please visit [www.tektronix.com/oscilloscopes](http://www.tektronix.com/oscilloscopes)

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