

► Oscilloscope selection made easy



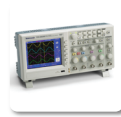
4000 Series
(MSO4000, DPO4000)



TDS3000B Series



TPS2000 Series



TDS2000B Series



TDS1000B Series



THS700 Series

Channels	Analog	Digital	2, 4	2, 4	2, 4 Isolated	2, 4	2	2 Isolated
			16*5	—	—	—	—	—
Bandwidth	350 MHz to 1 GHz		100 MHz to 500 MHz		100 MHz to 200 MHz		60 MHz to 200 MHz	
Rise Time	1.0 ns to 350 ps		3.5 ns to 700 ps		3.5 ns to 2.1 ns		5.8 ns to 2.1 ns	
Sample Rate (Real-time)	2.5 GS/s to 5 GS/s		1.25 GS/s to 5 GS/s		1 GS/s to 2 GS/s		500 MS/s to 1 GS/s	
Record Length (Max)	10 M		10 k		2.5 k		2.5 k	
Digital Channel Characteristics	Main: 500 MS/s, 10 M record length MagniVu™: 16.5 GS/s ⁵ , 10 k record length (centered at the trigger) ⁵		—		—		—	
Trigger Types	Edge, Sequence, Logic, Pulse (Width, Runt), Multi-channel Set-up and Hold, Rise/Fall Time, Video, I ² C ² , SPI ² , CAN ² , RS-232 ² , Parallel ⁵		Edge, Logic, Pulse, Video, Comm ¹		Edge, Pulse, Video		Edge, Pulse, Video	
Connectivity and Storage	USB host for storage and direct printing, USB device for PC connectivity, CompactFlash, LAN, (10/100Base-T Ethernet), GPIB ²		Ethernet (10Base-T), Centronics, RS-232 ² , GPIB ² , Floppy Disk		RS-232, Centronics, CompactFlash		USB host for storage, USB device for PC connectivity or direct print, GPIB ²	
Waveform Math and Analysis	Waveform math (+, -, x, /), FFT, Arbitrary expression math, Connect to a PC for extended analysis on OpenChoice [®] or NI SignalExpress TE software and MS Windows software		Waveform math (+, -, x, /), DPO math ³ , Arbitrary expression math ³ , FFT, Connect to a PC for extended analysis on OpenChoice [®] , NI SignalExpress TE ⁴ or MS Windows software		Waveform math (+, -, x), FFT, Connect to a PC for extended analysis on OpenChoice [®] software and MS Windows software		Waveform math (+, -, x), FFT, Connect to a PC for extended analysis on OpenChoice [®] or NI SignalExpress TE software and MS Windows software	
Applications	Embedded design & debug, Investigation of transient phenomena, Automotive electronics design & debug, Manufacturing test & quality control, Industrial control		Telecomm mask testing and manufacturing, Digital troubleshooting, Video design and service, Power supply design		Industrial power design and installation, Advanced electronics design and installation, Education, Automotive		Design and debug, Service and repair, Education and training, Manufacturing test and quality control	
Dimensions	17.3" (439 mm) wide x 9.0" (229 mm) high x 5.4" (137 mm) deep		14.8" (375 mm) wide x 6.9" (176 mm) high x 5.9" (149 mm) deep		13.24" (336 mm) wide x 6.33" (161 mm) high x 5.10" (130 mm) deep		12.85" (326.3 mm) wide x 6.22" (158.0 mm) high x 4.89" (124.2 mm) deep	
Weight	11.0 lbs. (5.0 kg)		7.0 lbs. (3.2 kg)		7.0 lbs. (3.2 kg) with one battery installed		4.4 lbs. (2.0 kg)	

⁵Specifications may vary based on the model selected within the product families listed above.

¹ Requires TDS3TMT module. ² Optional. ³ Requires TDS3AAM module. ⁴ Download from Tektronix website. ⁵ MSO4000 Series only.

Available from:



Measurably better value

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Web: www.tti.co.uk

▶ Recommended Accessories

▶ 4000 Series Accessories

DPO4AUTO Module	Automotive serial triggering & analysis module (CAN).
DPO4EMBD Module	Embedded serial triggering & analysis module (I ² C, SPI).
DPO4COMP Module	Computer serial triggering and analysis module (RS-232).
TPA-BNC	TekVPI to TekProbe BNC adapter.
TEK-USB-488	GPIO to USB adapter.
AC4000	Soft transit case.
HCTEK4321	Hard carrying case (requires AC4000).
RM4000	Rackmount kit.

▶ TDS3000B Series Accessories

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.
HCTEK4321	Hard carrying case (requires AC3000).
RM3000	Rackmount kit.

▶ TPS2000 Series Accessories

TPS2PBNB Power Bundle	Includes (4) P5120 passive, high-voltage probes and TPS2PWR1 power measurement and analysis software.
TPS2PWR1 Power Software	Offers instantaneous power 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.
AC2100	Soft carrying case.
HCTEK4321	Hard carrying case (requires AC2100).

▶ TDS2000B and TDS1000B Series Accessories

TEK-USB-488	GPIO to USB adapter.
AC2100	Soft carrying case.
HCTEK4321	Hard carrying case (requires AC2100).
RM2000B	Rackmount kit.

¹ Ships standard with the TPS2000 Series and TDS3GV module. ² Requires 1103 TEKPROBE power supply when used with TDS1000B, TDS2000B, TDS3000B or TPS2000 Series. ³ Requires 1103 TEKPROBE power supply when used with TDS1000B, TDS2000B or TPS2000 Series. ⁴ Bandwidth limits: 100 Hz, 3 kHz and 100 kHz. ⁵ Used with TCPA300 amplifier. ⁶ Used with TCPA400 amplifier. ⁷ Not compatible with TPS2000 Series. ⁸ Requires TekVPI to TekProbe™ BNC adapter for use with the DPO4000 and MSO4000 Series. ⁹ DPO4000 and MSO4000 Series only.

▶ Recommended Software

▶ 4000 Series, TDS2000B and TDS1000B Series Software

SIGEXPT Software	NI SignalExpress Tektronix Edition - Fully interactive measurement software environment optimized for the MSO4000, DPO4000, TDS2000B and TDS1000B Series (Professional Version).
IVI Driver	Provides a standard instrument programming interface for common applications such as LabVIEW, LabWindows/CVI, Microsoft .NET and MATLAB.

▶ TDS3000B and TPS2000 Series Software

TDSPCS1 OpenChoice[®] Software	A collection of applications that enables fast and easy documentation and analysis of measurement results ¹ .
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	P2220 - 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 ³ P6243 - 10X, 1 GHz active probe ² TAP1500 - 1.5 GHz TekVPI™ active probe ³
Differential Probes	ADA400A - 100X/10X/1X/0.1X, 1 MHz differential preamplifier ^{3,4,8} P5205 ^{4,5} - 1.3 kV, 100 MHz high-voltage differential probe P5210 ^{4,5} - 5.6 kV, 50 MHz high-voltage differential probe P6246 - 1X/10X, 400 MHz differential probe ^{2,8} P6247 - 1X/10X, 1 GHz differential probe ^{2,8} TDP0500 - 500 MHz TekVPI 42V differential probe ⁹ TDP1000 - 1 GHz TekVPI 42V differential probe ³
Current Probes	A621 - 1000 A _{RMS} , 50 kHz current probe A622 - 70 A _{RMS} , 100 kHz current probe P6021 - 5 A _{RMS} , 60 MHz current probe P6022 - 2 A _{RMS} , 120 MHz current probe TCP202 - 15 A, DC to 50 MHz current probe ³ TCP312 - 30 A, DC to 100 MHz current probe ⁵ TCP305 - 50 A, DC to 50 MHz current probe ⁵ TCP303 - 150 A, DC to 15 MHz current probe ⁵ TCP404XL - 750 A, DC to 2 MHz current probe ⁵ TCP0030 - 120 MHz TekVPI 30 Ampere AC/DC current probe ⁹ TCPA300/400 - Current measurement systems ³
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 ⁷ P5205 - 50X/500X, 100 MHz, high-voltage differential probe ^{3,8} P5210 - 100X/1000X, 50 MHz high-voltage differential probe ^{3,8}
Probe Accessories	NEX-HD2HEADER - Mictor connector breakout to 0.1" header pins

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visit www.tektronix.com/accessories

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