



▶ Oscilloscope Selection Made Easy

Superior Measurement Fidelity. Powerful Analysis. Unrivaled Connectivity.

▶ Complete Probe Solutions

Passive Probes	<ul style="list-style-type: none"> P5050 10X, 500 MHz passive probe P6101B 1X, 15 MHz passive probe P63399A 10X, 500 MHz buffered passive probe
Low-capacitance Probes	<ul style="list-style-type: none"> P6150 1X/10X, 3 GHz/9 GHz low-capacitance probe P6158 20X, 3 GHz low-capacitance probe
Active Probes	<ul style="list-style-type: none"> P6205 10X, 750 MHz active probe P6241 10X, 4 GHz active probe P6243 10X, 1 GHz active probe P6245 10X, 1.5 GHz active probe P6249 5X, 4 GHz active probe P7225 10X, 2.5 GHz active probe P7240 5X, 4 GHz active probe P7260 5X/25X, 6 GHz active probe
Differential Probes	<ul style="list-style-type: none"> P6246 1X/10X, 400 MHz differential probe P6247 1X/10X, 1 GHz differential probe P6248 1X/10X, 1.5 GHz differential probe P6330 5X, 3.5 GHz differential probe P7330 5X, 3.5 GHz differential probe ADA4400A, 1 MHz microvolt differential probe
Current Probes	<ul style="list-style-type: none"> AM503S 500 A DC, 100 MHz current probe system AM5030S 500 A DC, 100 MHz current probe system CT1, 7 A_{RMS}, 1 GHz current probe CT2 3.5 A_{RMS}, 200 MHz current probe CT6, .35 A_{RMS}, 2 GHz current probe P6021 7 A_{RMS}, 60 MHz current probe P6022 3 A_{RMS}, 120 MHz current probe TCP202 15 A DC, 50 MHz current probe
High-voltage Probes	<ul style="list-style-type: none"> P5100 100X, 250 MHz, high-voltage, single-ended probe P6015A 1000X, 75 MHz, high-voltage, single-ended probe P5205 50X/500X, 100 MHz, high-voltage differential probe P5210 100X/1000X, 50 MHz high-voltage differential probe

▶ Recommended Accessories

TCA-IMEG TekConnect™ high-impedance buffer amplifier
TCA-N TekConnect-to-N adapter
TCA-SMA TekConnect-to-SMA adapter
TCA-BNC TekConnect-to-BNC adapter
AMT75 1 GHz, 75 Ω electrical communication adapter
AFTDS electrical communication differential signal adapter
AD007 GPPB-LAN adapter
P6701B short-wavelength (500 to 950 nm) optical-to-electrical converter
P6703B long-wavelength (1100 to 1700 nm) optical-to-electrical converter

For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of oscilloscopes, probes and other software options. Please visit www.tektronix.com.

Notes

The following probes, when used with the TDS6000 and TDS/CSA7000 Series*1 oscilloscopes, require the Tektronix TCA-BNC adapter: P6249, P6241, CT1, CT2, CT6, TCP202, AM503S, AM5030S, P6158, P6248, P6330, P6243, P6245.

The following probe, when used with the TDS6000 and TDS/CSA7000 Series oscilloscopes, requires the Tektronix TCA-SMA adapter: P6150.

The following probes, when used with the TDS6000 and TDS/CSA7000 Series oscilloscopes, require the Tektronix TCA-IMEG adapter: P6101B, P6139A, P6021, P6022, P6015A, ADA400A, P5100, P5205, P5210.

*1 Not applicable for TDS7054 and TDS7104.

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	Channels	Bandwidth	Rise Time	Sample Rate	Oscilloscope Type	Record Length	Trigger Types	Connectivity	Waveform Math and Analysis	Applications
TDS5000 Series	2, 4	500 MHz to 1 GHz	800 ps to 400 ps	5 GS/s	DPO/DPX up to 100,000 wfms/s	8 MB	• Edge • Logic (Pattern, State, Setup/Hold) • Pulse (Glitch, Width, Runt, Timeout, Transition) • Video • Window • Trigger Delay by Time/Events	Extended	Basic (Extended optional)	• Communication Compliance Testing and Analysis • Video Design and Troubleshooting • Power Measurements
TDS784D	4	1 GHz	~ 400 ps	4 GS/s	DPO/DPX up to 200,000 wfms/s	8 MB	• Edge • Logic (Pattern, State, Setup/Hold) • Pulse (Glitch, Width, Runt, Slew Rate, Timeout) • Comm (optional) • Video (optional)	Advanced	Advanced	• Communication Compliance Testing and Analysis • Video Design and Troubleshooting • Power Measurements
TDS694C	4	3 GHz	133 ps	10 GS/s	DSO	120 kB	• Edge • Logic (Pattern, State, Setup/Hold) • Pulse (Glitch, Width, Runt, Slew Rate, Timeout) • TLA Cross Trigger	Advanced	Advanced	• Validation/ Characterization of High-speed Digital Designs • Jitter and Timing Analysis • High-energy Physics
TDS6000 Series	4	4 GHz, 6 GHz	100 ps, 70 ps	20 GS/s on 2, 10 GS/s on 4	DSO	250 kB	• Edge • Logic (Pattern, State, Setup/Hold) • Pulse (Glitch, Width, Runt, Timeout, Transition) • Comm • Serial Pattern	Extended	Extended	• Validation/ Characterization of High-speed Digital Designs • Jitter and Timing Analysis • High-energy Physics
TDS7000 Series	4	500 MHz to 4 GHz	800 ps to 100 ps	5 GS/s to 20 GS/s	DPO/DPX up to 400,000 wfms/s	32 MB	• Edge • Logic (Pattern, State, Setup/Hold) • Pulse (Glitch, Width, Runt, Timeout, Transition)	Extended	Extended	Verification/Debug/ Characterization of Sophisticated Designs • Jitter and Timing Analysis • Disk Drive Measurements • Power Electronics
TDS8000B Series	Up to 8	2.5 GHz to 70 GHz	5.0 ps	200 kS/s (Sequential)	Sampling	4 kB	• Edge • Internal Clock • Clock Recovery	Extended	Extended	• Device Characterization and Semiconductor Testing • Impedance and Crosstalk Characterization using TDR
CSA7000 Series	4	1.5 GHz, 4 GHz	160 ps, 100 ps	20 GS/s	DPO/DPX up to 400,000 wfms/s	32 MB	• Edge • Logic (Pattern, State, Setup/Hold) • Pulse (Glitch, Width, Runt, Timeout, Transition)	Extended	Extended	• Design Development • Optical and Electrical Compliance Testing • Margin Verification • Jitter and Timing Analysis
CSA8000B Series	Up to 8	2.5 GHz to 70 GHz	5.0 ps	200 kS/s (Sequential)	Sampling	4 kB	• Edge • Internal Clock • Clock Recovery	Extended	Extended	• Optical Design and Manufacturing Test • High-speed Tele and Data Communications • Signal Analysis and Compliance Testing



For answers to your questions, and further assistance in choosing the right Tektronix oscilloscope, probes and accessories for your needs, call your Tektronix representative now. Or visit www.tektronix.com.

► Optical Sampling Module

	Bandwidth	Filter Rates (Gbps)	Standard Supported	Wavelength (nm)	RMS Noise Typical (μ W) (dBm)	Optical Sensitivity
80C10	65 GHz	39.813 43.018	OC-768/STM-256 ITU-T G.709 FEC	Calibrated at 1310 and 1550	45 at 28 GHz 60 at 39 Gbps 60 at 43 Gbps 100 at 65 GHz	0 dBm 0 dBm 0 dBm 3 dBm

Other modules available supporting data rates from 155 Mbps to 40 Gbps.

► Electrical Sampling Module

	Bandwidth	Channels	Rise Time Typical (10% to 90%)	Dynamic Range (V_{pp})	Offset Range (V)	Maximum Input Voltage (V)
80E06	70 GHz	1	50 ps	800 mV _{pp}	±1.6 V	±2.0 V

Other modules available with bandwidths from 12.5 GHz to 50 GHz.

► Application-specific Software Options

TDSJIT3	Jitter and Timing Analysis
TDSDDM2	Disk Drive Analysis
TDCPM2	ANSI/ITU Telecom Pulse Compliance Testing
TDSPWR2	Power Measurement and Analysis
TDSUSBS	USB 2.0 Compliance Testing Software
TDSUSBF	USB 2.0 Test Fixture
TDSDVD	Optical Storage Analysis

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

Connectivity
Basic – RS-232
Advanced – Basic, plus GPIB, Centronics, Floppy Disk
Extended – Advanced, plus LAN, Ethernet. May include USB, PCMCIA, CD-ROM, Open access to OpenChoice™ platform

Waveform Math and Analysis
Basic – Simple waveform math
Advanced – Advanced waveform math, FFT
Extended – Advanced waveform math, FFT or Spectral. Compatibility with Windows analysis and productivity software