6 Series B MSO Mixed Signal Oscilloscopes

FACTSHEET

More bandwidth with up to 10 GHz bandwidth More channels with 4, 6, or 8 inputs Less noise. Now with even lower input noise

- 12-bit ADCs and low-noise preamps for accurate measurements
- 4, 6, or 8 inputs. Each FlexChannel™ input can be used as 8 digital channels for added visibility
- Intuitive user interface with 15.6" HD touch display
- TekVPITM probe interfaces support a wide range of probes
- Powerful built-in measurements, statistics and trend plots
- Application-specific measurements and automated testing
- · Optional built-in arbitrary/function generator
- DVM and frequency counter free with registration
- Optional Windows operating system
- Upgradeable bandwidth, record length, and instrument options



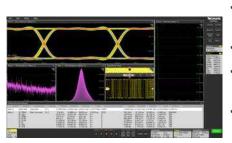
Key Specifications			
Bandwidth	1 GHz, 2.5 GHz, 4 GHz, 6 GHz, 8 GHz, 10 GHz		
Channels	4, 6 or 8		
Vertical resolution	12-bits		
Noise	< 55 μV at 1mV/div and 1 GHz <1.25 mV at 50mV/div and 10 GHz		
Sample Rate	2 channels: 50 GS/s 4 channels: 25 GS/s 6 or 8 channels: 12.5 GS/s		
Record Length	62.5 M (standard), 125 M, 250 M, 500 M, or 1 G		



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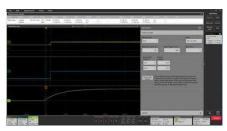
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High Speed Clocks and Data



- Low noise, high ENOB, high sample rate
- Advanced jitter analysis
- >23 standards for serial decode and analysis
- Full suite of automated compliance test
- Broadest range of probes and accessories

Power Integrity



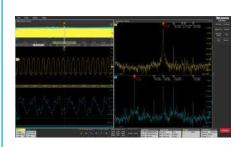
- Lowest noise
 - 8 channels for PMIC / power sequencing
- 5 GHz on 8 channels for hunting sources of interference on power rails
- Digital Power Management measurements
- Multi-channel mask testing
- Power rail probes

Automotive



- CAN, CAN-FD, LIN, FlexRay, SENT, PSI-5, 100BASE-T1 decoding
- 10/100/1000BASE-T1
 Automotive Ethernet compliance test
- Signal separation and PAM 3 analysis for Automotive Ethernet
- Up to 10 GHz to detect and measure high-frequency noise

Aerospace and Defense

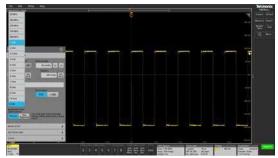


- Low noise, high ENOB, high sample rate
- MIL-STD-1553, ARINC429 and SpaceWire decoding
- Multi-channel spectrum analysis
- Removable storage for easy movement in/out of secure environments
- Comprehensive programming commands with translation from legacy commands

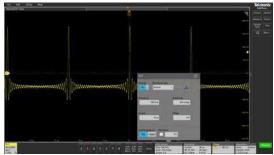


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Add capabilities, including bandwidth and record length, without sending for service



Built-in arbitrary / function generator provides flexible signals up to 50 MHz

Instrument Options		
MSO6xB 6-BW-1000	1 GHz	
MSO6xB 6-BW-2500	2.5 GHz	
MSO6xB 6-BW-4000	4 GHz	
MSO6xB 6-BW-6000	6 GHz	
MSO6xB 6-BW-8000	8 GHz	
MSO6xB 6-BW-10000	10 GHz	
6-AFG	Arbitrary function generator	
6-RL-1	Extend record length to 125 M/ch	
6-RL-2	Extend record length to 250 M/ch	
6-RL-3	Extend record length to 500 M/ch	
6-RL-4	Extend record length to 1 G/ch	
6-SEC	Enhanced security. Password protects ports and firmware	
6-SV-BW-1	2 GHz spectrum capture bandwidth	
6-SV-RFVT	RF versus time analysis and trigger	
6-WIN	Removable solid-state drive with Windows 10	



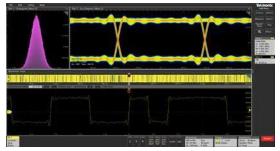




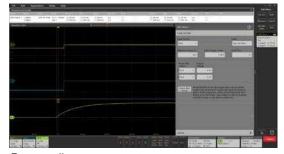


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Advanced jitter analysis



Power rail measurements

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Automated compliance testing to the 1000BASE-T1 Automotive Ethernet standard

Advanced Measurements and Analysis		
6-DBDDR3	DDR3 and LPDDR3 memory automated measurements	
6-DBLVDS	Low voltage differential signaling (LVDS) automated measurements	
6-DJA	Advanced jitter and eye analysis	
6-DPM	Digital power management, power rail measurements	
6-MTM	Mask and limit testing	
6-PAM3	PAM3 measurements and analysis	
6-AUTOEN-SS	Automotive Ethernet signal separation	
6-PWR	Power supply measurements and analysis	
6B-IMDA	3-phase inverters and motor drive measurements and analysis	
6B-IMDA-DQ	DQ0 Feature for Inverter Motor Drive Analysis	
6-VID	Analog video trigger (NTSC, PAL, SECAM)	

Automated Compliance Testing		
6-CMAUTOEN	Automotive Ethernet (100BASE-T1, 1000BASE-T1) compliance testing	
6-CMAUTOEN10	Automotive Ethernet (10BASE-T1S Short Reach) compliance testing	
6-CMDDR3	DDR3 and LPDDR compliance testing	
6-CMDPHY	MIPI D-PHY v1.2 compliance testing	
6-CMENET	Ethernet (1000BASE-T, 100BASE-T) compliance testing	
6-CMINDUEN10	Industrial Ethernet (10BASE-T1L Long Reach) compliance testing	
6-CMNBASET	2.5G and 5G BASE-T Ethernet compliance testing	
6-CMUSB2	USB2.0 compliance testing	
6-CMXGBT	10G BASE-T Ethernet compliance testing	

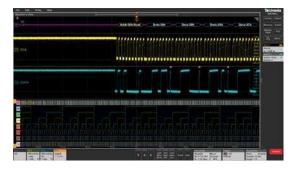


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100BASE-T Ethernet decoding and triggering with results table



PC decoding synchronized with digital waveforms from a TLA058 logic probe

Serial Decoding for Faster Debugging		
6-SRAERO	Aerospace serial triggering and analysis (MIL-STD-1553, ARINC429)	
6-SRAUDIO	Audio serial triggering and analysis (I2S, LJ, RJ, TDM)	
6-SRAUTO	Automotive serial triggering and analysis (CAN, CAN-FD, LIN, FlexRay)	
6-SRAUTOEN1	Automotive Ethernet serial analysis (100BASE-T1)	
6-SRAUTOSEN	SENT serial triggering and analysis (SENT)	
6-SRCOMP	Computer serial triggering and analysis (RS-232/422/485/UART)	
6-SRDPHY	MIPI D-PHY serial analysis (DSI-1, CSI-2)	
6-SREMBD	Embedded serial triggering and analysis (I2C, SPI)	
6-SRENET	Ethernet serial triggering and analysis (10BASE-T, 100BASE-TX)	
6-SRI3C	MIPI I3C serial analysis	
6-SR8B10B	8b/10b serial analysis	
6-SRMDIO	MDIO serial analysis	
6-SRNRZ	NRZ serial analysis	
6-SRPM	SPMI serial analysis	
6-SRPSI5	PSI5 serial analysis	
6-SRSPACEWIRE	SpaceWire serial analysis	
6-SRSVID	SVID serial analysis	
6-SRUSB2	USB serial triggering and analysis (USB 2.0 LS, FS, HS)	
6-SREUSB2	Embedded USB2 (eUSB2) serial analysis	

Characterize and debug state-of-the-art designs with greater confidence.

More bandwidth, More channels, Less noise.