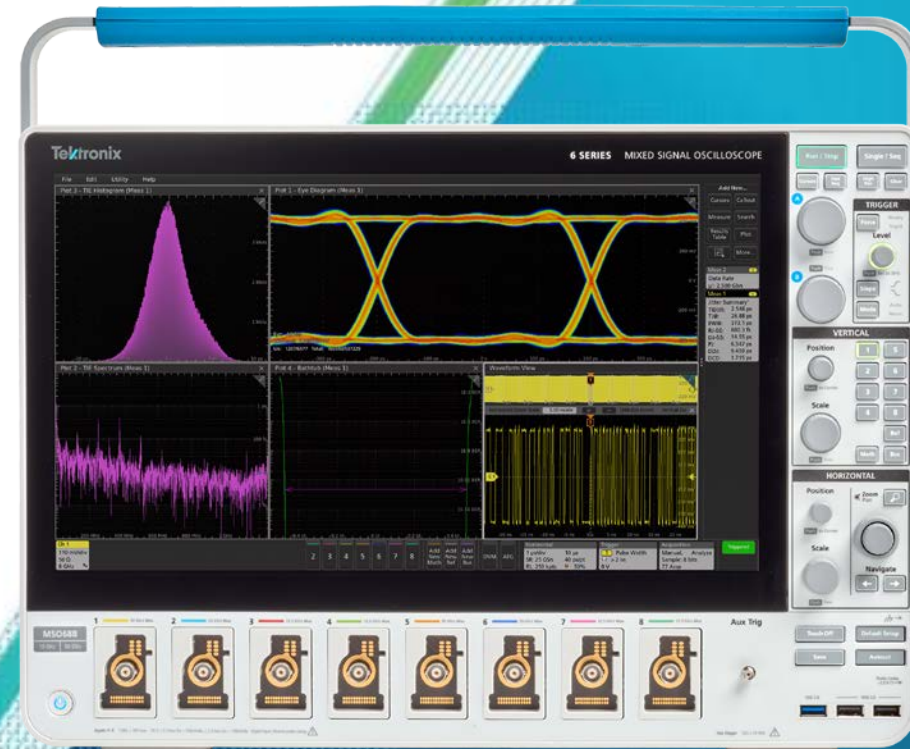


Tektronix

6 Series B MSO

More Bandwidth. More Channels. Less Noise.

8 FEBRUARY 2021



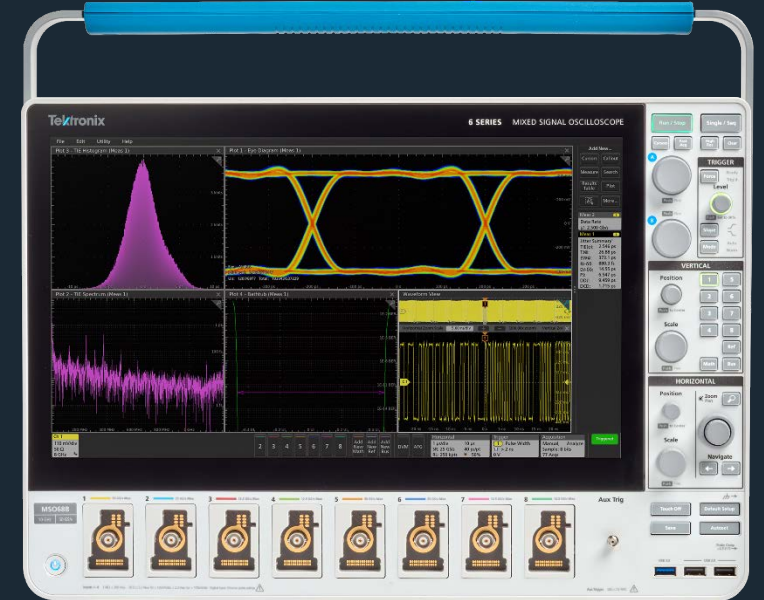
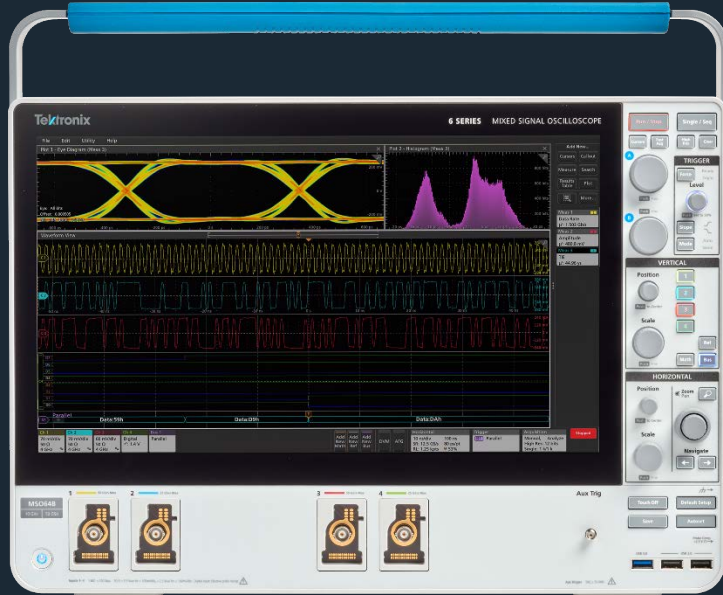
Current Customer and Market Trends

- Embedded designs are getting smarter and incorporating **more sensors that generate more data**
 - Video
 - Motion/position
 - 3-D sensing
- Embedded designs are using **faster clocks and higher-speed serial buses** to move and process more data
 - Need higher performance test equipment to keep pace
- Embedded systems are stressing power technologies as designers **minimize power consumption and ensure clean power to ASICs and FPGAs** that demand precisely-controlled DC voltages
 - Smaller signals in noisy environments
- Fewer resources and tighter project timelines mean design engineers need to **solve problems faster than ever** to stay on schedule
- Getting progressively harder to justify new capital purchases. It is expected that oscilloscopes will be:
 - **Utilized longer and across more projects** than in the past
 - **Upgradeable** as new requirements arise

6 Series B MSO Product Overview

More bandwidth. More channels. Less noise

6 Series B Mixed Signal Oscilloscopes



Up to 10 GHz bandwidth
Best signal fidelity with 12-bit ADCs and ultra-low noise
4, 6 or 8 FlexChannel inputs

Analyze and debug gigahertz+ designs with these powerful, elegant instruments

6 Series B MSO

3
Industry
Firsts!



Industry Firsts!

1

4, 6 and 8 channel product family above 2 GHz

2

<51.1 μV of noise at 1mV/div and 1 GHz
<1.39 mV of noise at 50mV/div and 10 GHz

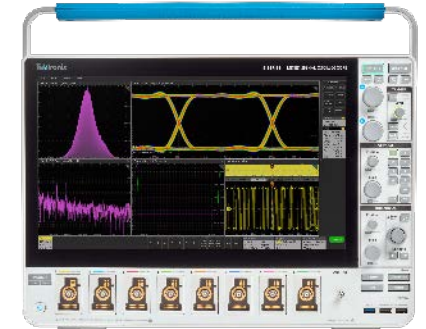
3

Only 10 GHz scope with choice of OS
(Windows or not)

Introducing the 6 Series B MSO

6 SERIES B MSO FAMILY

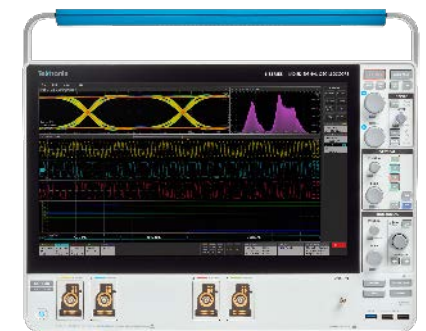
	MSO64B	MSO66B	MSO68B
Bandwidth	1 GHz, 2.5 GHz, 4 GHz, 6 GHz, 8 GHz, 10 GHz		
FlexChannel inputs	4	6	8
Analog sample rate	25 GS/s	12.5 GS/s	
All channels	(Supports up to 10 GHz, all ch)	(Supports up to 5 GHz on >4 ch)	
4 channels	25 GS/s (Supports up to 10 GHz on 4 ch)		
2 channels	50 GS/s (Supports up to 10 GHz on 2 ch)		
Maximum digital channels	32 (opt.)	48 (opt.)	64 (opt.)
Digital sample rate	25 GS/s		
Record length standard (all chans)	62.5 M		
Record length optional (all chans)	125 M, 250 M, 500 M, or 1 G		
Waveform capture rate	>500,000 wfms/s		
Arbitrary / Function Generator	50 MHz w/ 128 k Arbitrary memory (opt.)		
DVM	4-bit DCRMS, ACRMS, AC+DC (free with product registration)		
Operating system	Closed Embedded O/S (standard) on removable SSD Open Windows 10 O/S (opt.) on removable SSD		
Display	15.6 inch HD (1920 x 1080) capacitive touch		
Warranty period	1 Year		



MSO68B



MSO66B



MSO64B

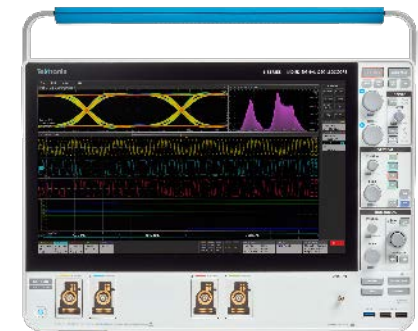
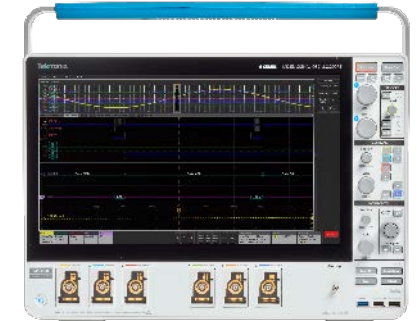
MSO64 vs. MSO6xB Differences



Specification	MSO64	MSO64B, MSO66B, MSO68B
Bandwidth Range	1 GHz – 8 GHz	1 GHz – 10 GHz
Bandwidth at 12.5 GS/s sample rate	4 GHz	5 GHz
Bandwidth at 12-bits of ADC	4 GHz	5 GHz
Number of FlexChannels	4	4, 6, or 8
Record Length	Standard 62.5 M Optional 125 M, 250 M, 500 M, 1 G	Standard 62.5 M Optional 125 M, 250 M, 500 M, 1 G
Number of Digital Channels	Up to 32 in groups of 8	Up to 64 in groups of 8
Maximum Sample Rate	25 GS/s on 4 channels	50 GS/s on 2 channels 25 GS/s on 4 channels 12.5 GS/s on >4 channels
RMS Noise	Industry leading at <20mV/div	Industry leading at every V/div setting as a % of full scale
Reduction in RMS Noise @ ≥20mV/div	N/A	Reduction of ~2dB of RMS Noise when 50 GS/s sample rate is used
Mass Storage Architecture	Standard Internal 250GB M.2 drive with Closed Embedded O/S Optional 500GB Removable Windows 10 SSD	Standard 250GB Removable SSD with Closed Embedded O/S Optional 500GB Removable SSD with Windows 10 Optional 500GB Removable SSD with Closed Embedded O/S
Security Option Structure	<ul style="list-style-type: none"> Secure password protected BIOS Password protected enabling/disabling of I/O ports and firmware upgrades Calibration constants, licenses, and SPC saved on internal M.2 drive No internal storage No Windows 10 SSD allowed 	<ul style="list-style-type: none"> Secure password protected BIOS Password protected enabling/disabling of I/O ports and firmware upgrades Calibration constants, licenses, and SPC saved on separate, non-user-accessible memory that stays with mainframe Storage on Removable SSD with either Closed Embedded O/S or Windows 10
Display	15.6 inch., Full HD (1920 x 1080) with capacitive touch	15.6 inch., Full HD (1920 x 1080) with capacitive touch, now even brighter
Warranty	3 Year	1 Year

Why You Need a 6 Series B MSO

Distinctive Features	Why it Matters
Look at fast signals	1 – 10 GHz bandwidth and up to 50 GS/s sample rate enable you to see signals in higher speed designs. Bandwidth is fully upgradeable.
High Resolution and Low Noise	A unique combination of bandwidth, sample rate, record length, vertical resolution, low noise, and high ENOB provide superior measurements and confidence.
More than 4 Channels	The first oscilloscope with bandwidth more than 2 GHz to offer more than 4 channels. So you can see more of your system – more power rails, more clocks, more data lanes. Each FlexChannel™ input can be converted into 8 digital channels for even more visibility.
Great User Experience	Industry's largest 15.6 inch HD capacitive touch display (now even brighter) with innovative drag 'n' drop, object oriented user interface. Responsive, Intuitive, Modern.
Unmatched Probing Solutions	TekVPI probes communicate with the scope to simplify setup, reduce errors and are available up to 10 GHz.
Advanced Measurements and Automated Solutions	Powerful statistics and trends provide deep insight. Advanced jitter analysis... Compliance testing for USB2, Automotive Ethernet, DDR3/LPDDR3, MIPI D-PHY... Automated Power Analysis and Inverter Motor Drive Analysis Spectrum View with up to 2 GHz capture bandwidth and integrated digital down conversion (DDC) for deep analysis of Frequency domain correlated with Time domain
Upgradeable	World's only >2 GHz oscilloscope capable of switching between Open Windows and closed OS operating modes, without making trade-offs in performance or ease-of-use.



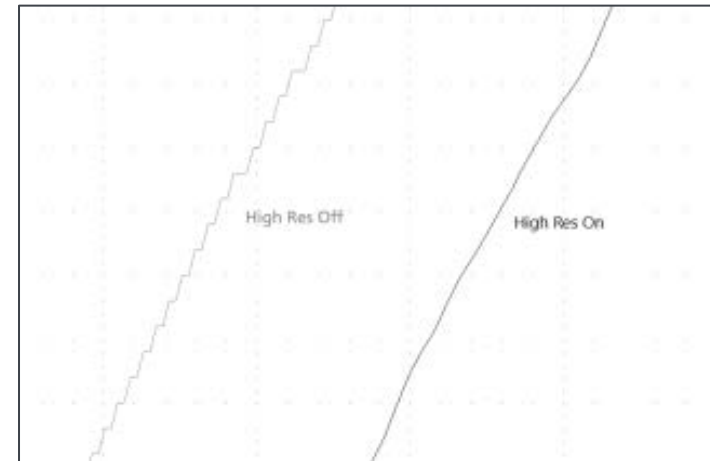
**Fast signals. High resolution.
Low noise.**

See better

Introducing the 6 Series B MSO

HIGH RES

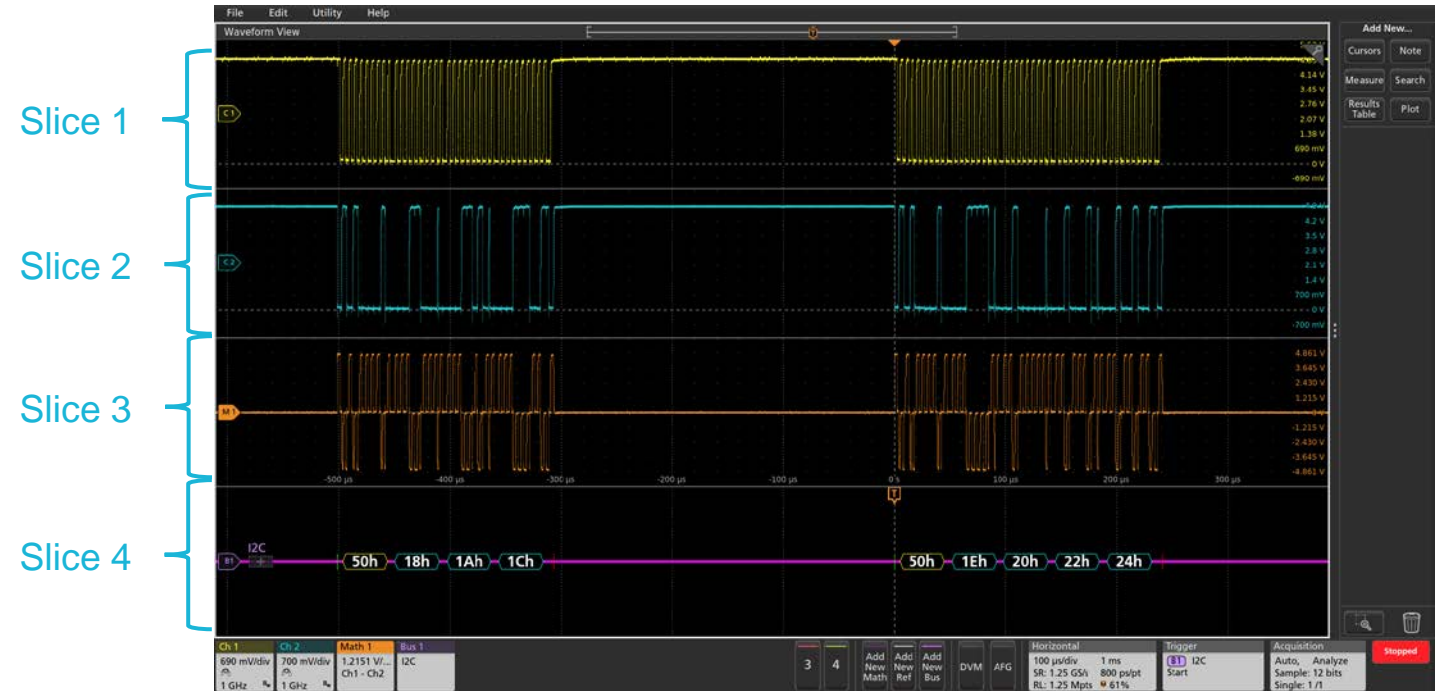
- The 6 Series B MSO has a 12 bit ADC
- As long as we are decimating by at least a factor of 2 (12.5 GS/s or slower sample rate), memory bandwidth allows up to 16 bit data storage
- Mathematically, each additional decimate by 2 increases vertical resolution by 1 bit
 - 12.5 GS/s: 12 bits
 - 6.25 GS/s: 13 bits
 - 3.125 GS/s: 14 bits
 - 1.25 GS/s: 15 bits
 - 625 MS/s and slower: 16 bits
- In addition, a unique DSP filter is applied at each sample rate that limits bandwidth and thus, noise, providing a more accurate view of the signal



Stacked vs. Overlay Display Mode

MAKE THE MOST EFFICIENT USE OF YOUR 12-BIT ADC

- Stacked mode creates a 'slice' for each waveform
 - As waveforms are turned on/off or created/deleted, slices are automatically added or removed as needed
- Each slice uses the full range of the ADC
 - You can now have both visual separation as well as maximum accuracy
- Stacked display mode is the new default display mode
- Change the ordering of slices by rearranging badges



Stacked / Overlay Display Mode

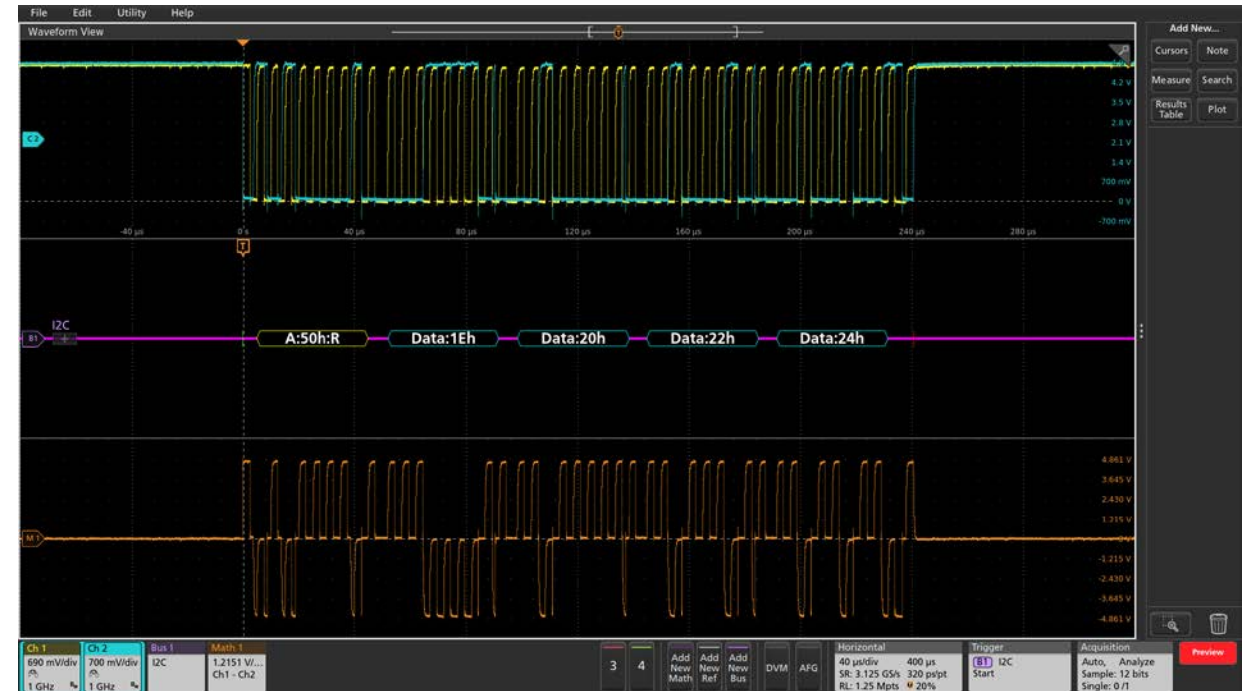
NEW STACKED/OVERLAY MODE PROVIDES THE BEST OF BOTH WORLDS!

- Stacked mode
 - Optimizes vertical resolution and easy viewing of many signals
 - Signals can be reordered
- Overlay mode
 - Optimizes comparison of signal amplitudes and timing
- Stacked/Overlay mode
 - Easy comparison of some of the signals, without compromising vertical resolution or ease of viewing multiple signals

analog signals overlaid for easy comparison

bus moved up for correlation with signals

math moved down

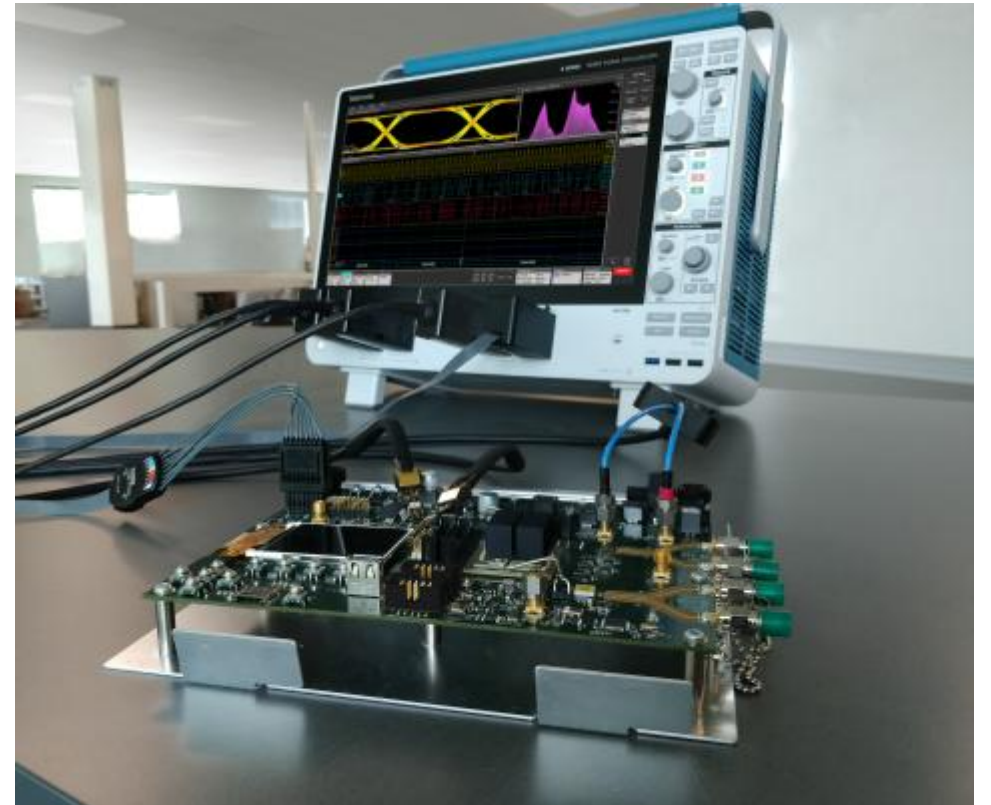


Highest Sample Rate

CAPTURE MORE HIGH-SPEED SIGNALS AT ONCE REDUCING DEBUG TIME

- 1 – 10 GHz bandwidths available
- 50 GS/s on two channels
- 25 GS/s on four channels
- 12.5 GS/s on >four channels
- Many instruments give up channels at high sample rates

Product Series	Sample Rate 4 Channels	Bandwidth 4 Channels	Sample Rate 8 Channels	Bandwidth 8 Channels
Tektronix 6 Series B MSO	25 GS/s	10 GHz	12.5 GS/s	5 GHz
Rohde & Schwarz RTP	20 GS/s	8 GHz	N/A	N/A
Keysight MXR	16 GS/s	6 GHz	16 GS/s	6 GHz
Keysight S-Series	10 GS/s	4 GHz	N/A	N/A
LeCroy WavePro HD	10 GS/s	4 GHz	N/A	N/A
Rohde & Schwarz RTO2000	10 GS/s	4 GHz	N/A	N/A



Why Is This Important?

REDUCE DEBUG & CHARACTERIZATION TIME BY AS MUCH AS 3X

- DDR3 memory characterization requires acquisition of a system clock and up to 64 data channels
 - 1600MT/s systems require at least 6.7 GHz of bandwidth to measure accurately
- Interleaving, or “half-channel” sampling reduces the available channels at full bandwidth on many competitors' scopes
- The 6 Series B MSO enables viewing multiple data channels at once, accelerating the process significantly

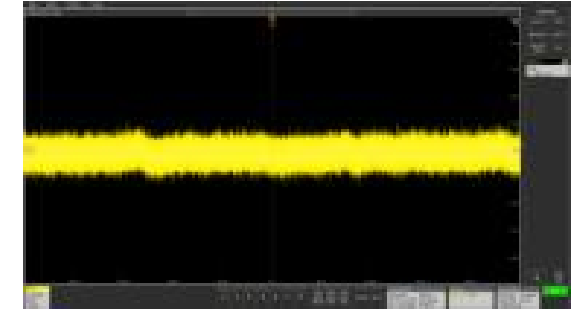


**Accelerate time to
insight with confidence**

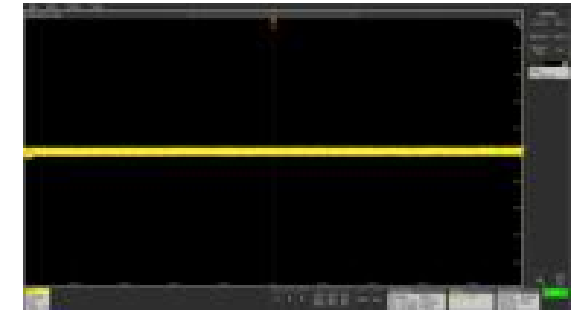
Less Noise

UP TO 20% INCREMENTAL NOISE IMPROVEMENTS

- TEK061 front-end ASIC for 50Ω, high bandwidth signal path
- >75% reduction in noise from 5 Series MSO at 1mV/div
- **NEW** 50 GS/s interleave on two channels provides ~2dB noise improvement at $\geq 20\text{mV/div}$



5 Series MSO – 1mV/div, High Res



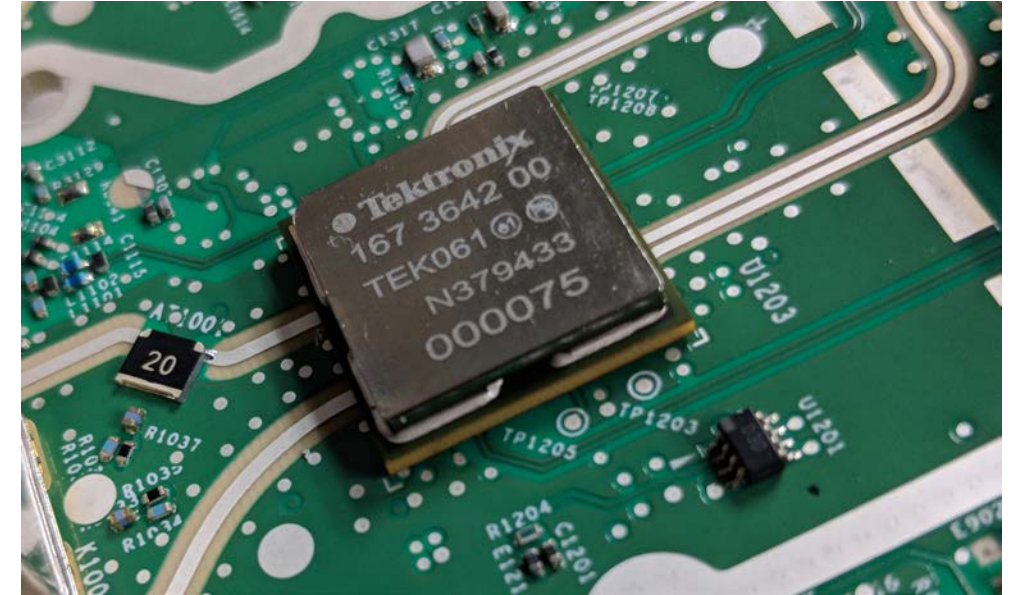
6 Series MSO – 1mV/div, High Res

Industry leading noise performance

Why Is This Important?

SEE IT. MEASURE IT.

- Modern embedded designs demand clean, precisely-controlled DC power supplies to feed ASIC and FPGA devices
- Hunting down interfering signals is challenging when you can't see them through the noise
- The 6 Series B breakthrough noise performance lets you See It. Measure It.



4 GHz, 50Ω, 1mV/div, typical	RMS Noise
Tektronix 6 Series B MSO	97 μV
Keysight MXR	132 uV
Keysight S-Series	153 μV
LeCroy WavePro HD	228 μV
Rohde & Schwarz RTO	240 μV
Rohde & Schwarz RTP	270 μV

**Gain measurement confidence
on the smallest of signals**

4, 6, or 8 FlexChannel™ Inputs.

See more

Introducing the 6 Series B MSO

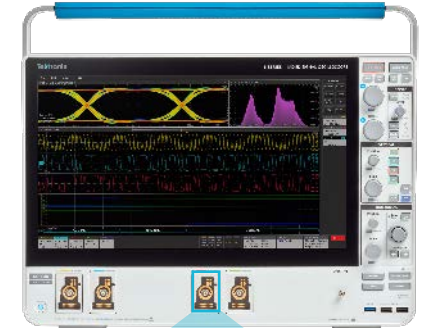
FlexChannels®

- FlexChannel® technology enables each input to be configured as either:
 - (1) analog channel
 - (8) digital channels
- Enables unprecedented flexibility and adaptability to the debug task at hand
- Possible configurations include:

MSO64B	
Analog	Digital
4	0
3	8
2	16
1	24
0	32

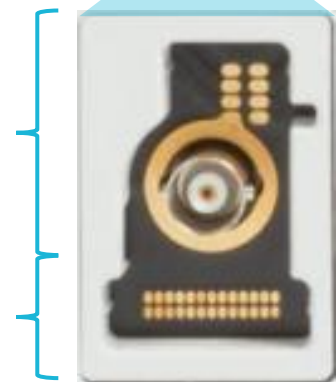
MSO66B	
Analog	Digital
6	0
5	8
4	16
3	24
2	32
1	40
0	48

MSO68B	
Analog	Digital
8	0
7	8
6	16
5	24
4	32
3	40
2	48
1	56
0	64

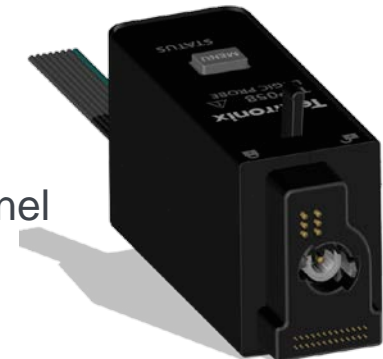


Traditional VPI connection
accepts existing probes

Additional connections
enable new digital probe



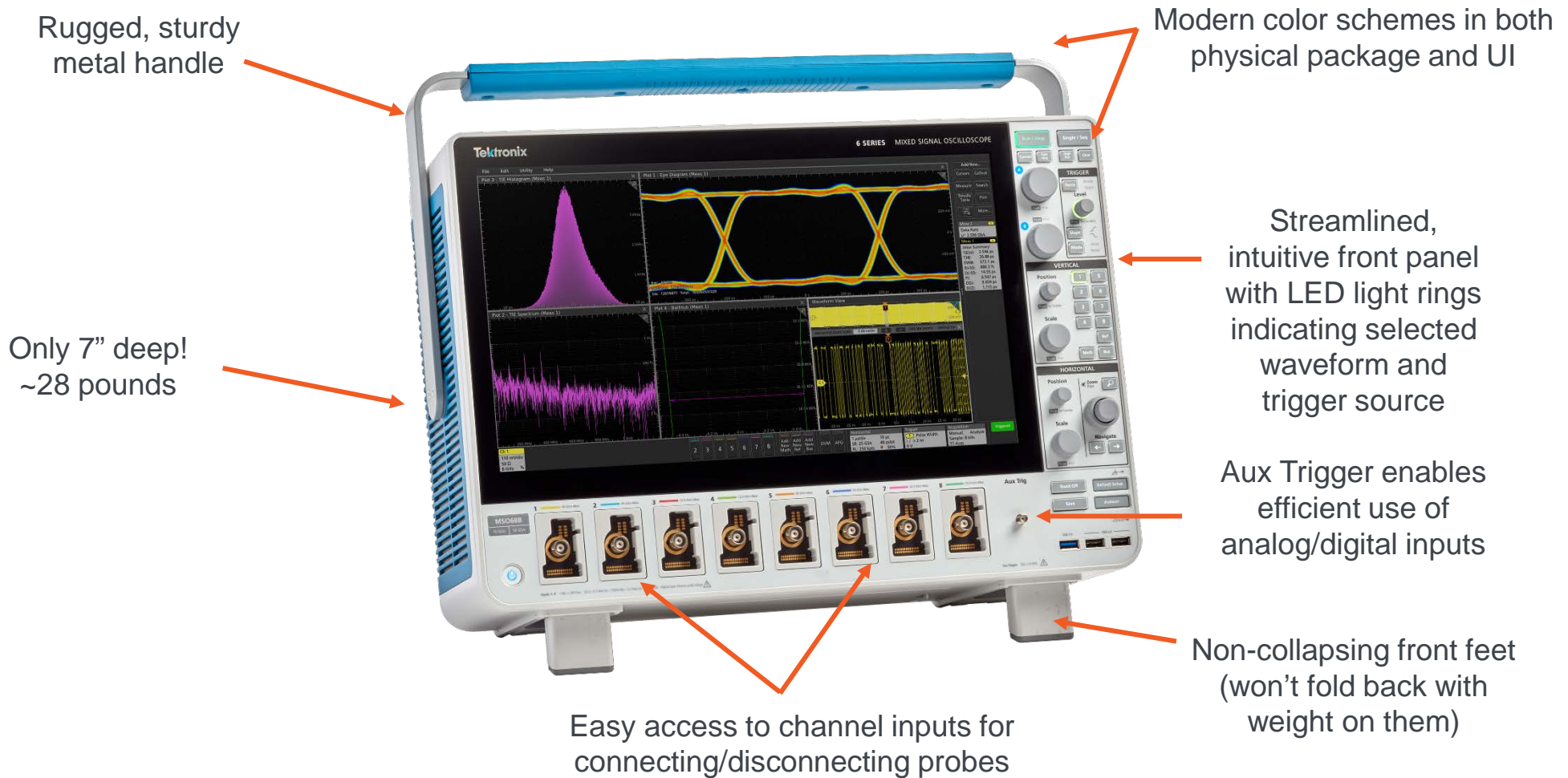
Each TLP058 probe
accesses the 8 digital
channels in the FlexChannel



Powerful but elegant

Introducing the 6 Series B MSO

INDUSTRIAL DESIGN



Drag. Pinch. Double Tap.

USER INTERFACE



Immediate access to cursors, notes, measurements, searches, results tables or plots

Measurement and Search results badges are displayed in Results Bar

Massive waveform viewing area!

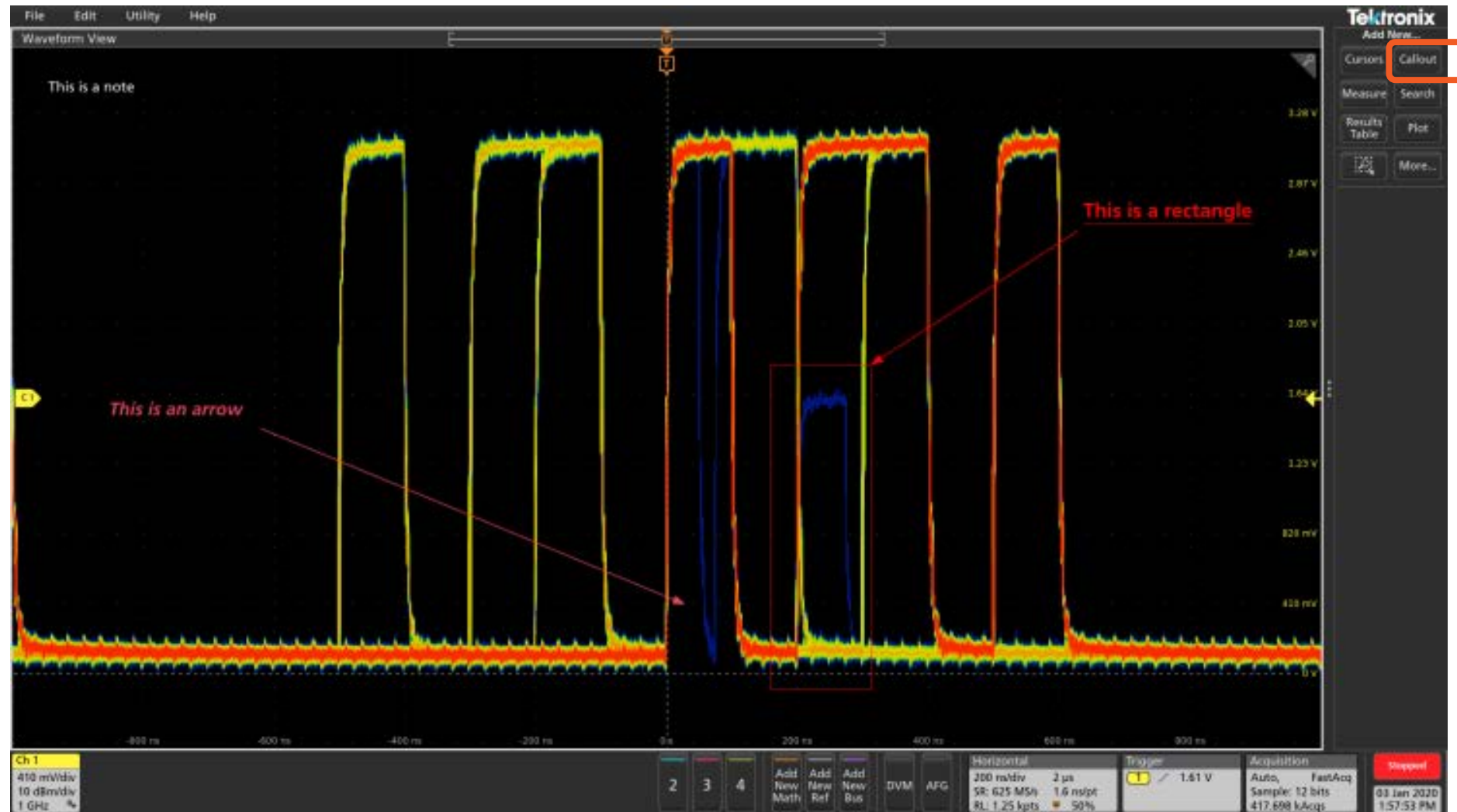
Waveform badges show relevant info for all displayed waveforms

Immediate access to new Math, Reference, and Bus waveforms

All critical horizontal, trigger and acquisition parameters

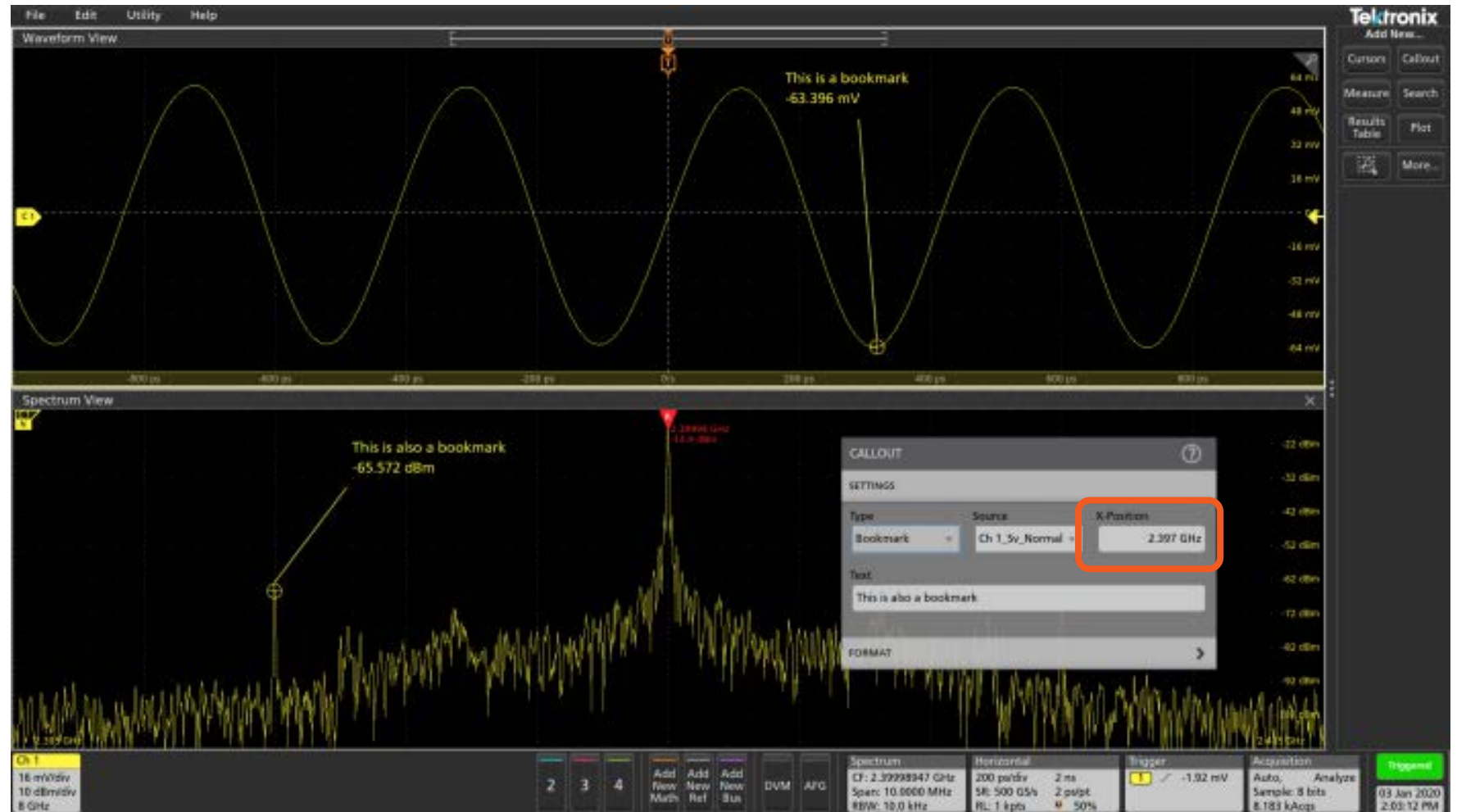
Annotate Thoroughly. Easily.

- “Notes” have been replaced with “Callouts”
- Four types of Callouts
 - Note
 - Arrow
 - Rectangle
 - Bookmarks
- Usual formatting options available
 - Font, size, color, bold, italics, underline, etc.



Annotate Thoroughly. Easily.

- Bookmarks are attached to a user specified source at a user-specified point in time
 - Indicates amplitude of waveform at that point
- They are compatible with Spectrum View
 - Effectively unlimited markers!
- Can specify precise horizontal position in menu



Run Windows or not. You choose.

USER SELECTABLE OPERATING SYSTEM

- **Standard configuration is a removable SSD with a closed embedded operating system** installed behind an access panel on the bottom of the instrument
- **An optional SSD with a Windows 10 license** can be installed behind an access panel on the bottom of the instrument
- When a Windows 10 SSD is installed:
 - You can minimize the scope app and get to a Windows desktop
 - You can install and run other applications on the scope
 - You can attach a second monitor and extend your desktop
- Regardless of OS, the scope user interface runs exactly the same



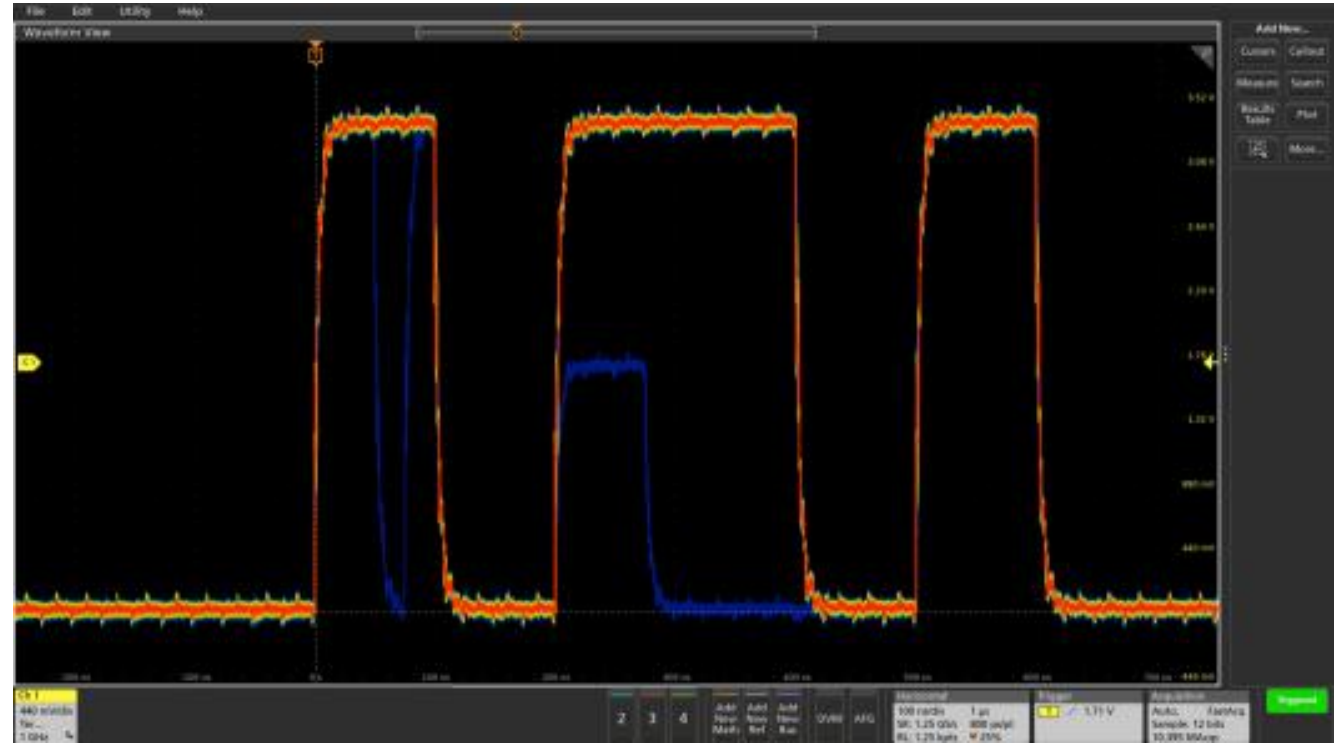
Awesome analysis

See deeper

Find Anomalies Fast

FastAcq™ ENABLES YOU TO FIND SIGNAL ANOMALIES FASTER

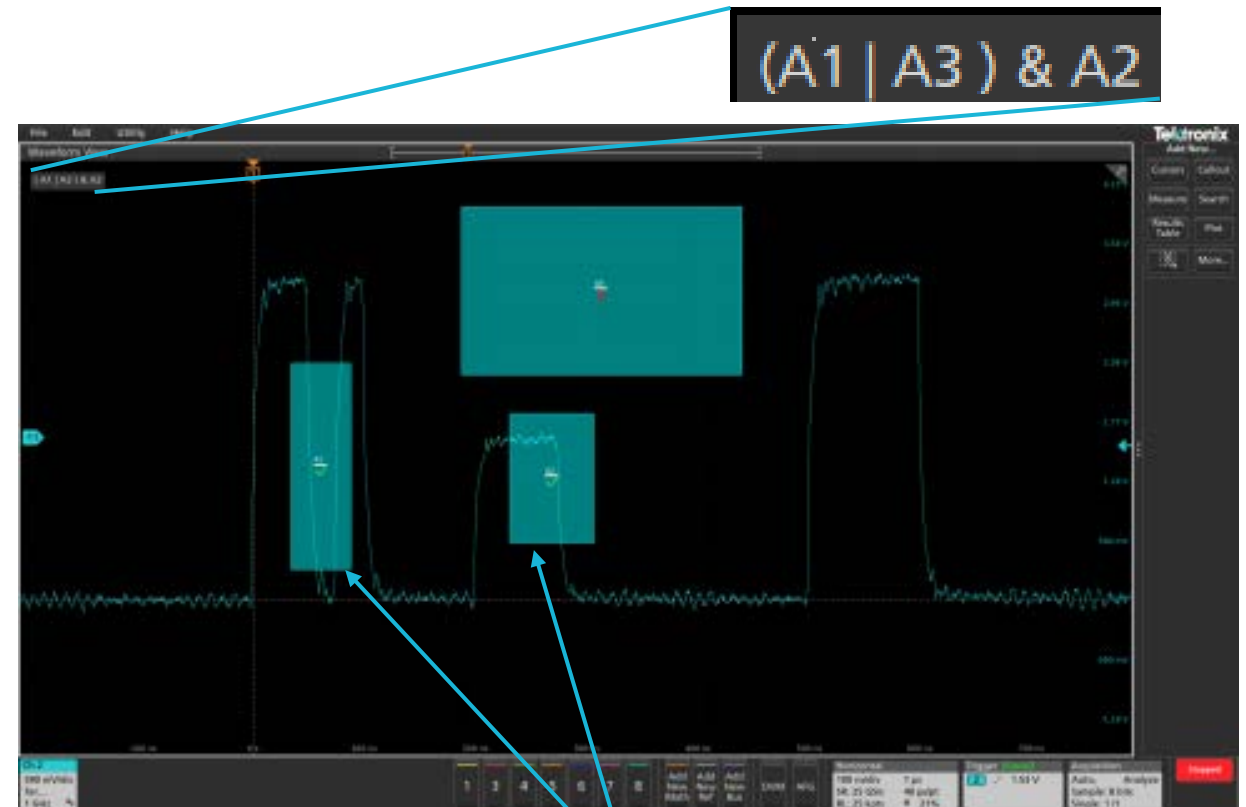
- Powered by custom ASIC's
- Visualize intermittent signal behavior quickly
- Acquire at >500,000 wfms/sec to gain insight into true signal behavior instantly
- Color-graded display provides information about how frequently anomalous events are occurring relative to repetitive signal characteristics



Use Graphics to Define Triggers Easily

VISUAL TRIGGER - USE GRAPHICAL AREAS TO QUALIFY TRIGGERS AND SAVE TIME HUNTING FOR THE SIGNAL OF INTEREST

- Filter using graphical 'Areas'
 - In, Out or Don't Care for each Area
- Standard shapes - rectangle, triangle, trapezoid and hexagon
 - Or build your own custom shapes
- Use logical expressions of multiple areas to determine trigger condition



Each area can be defined as In, Out, or Don't Care

Extensive Serial Bus Support

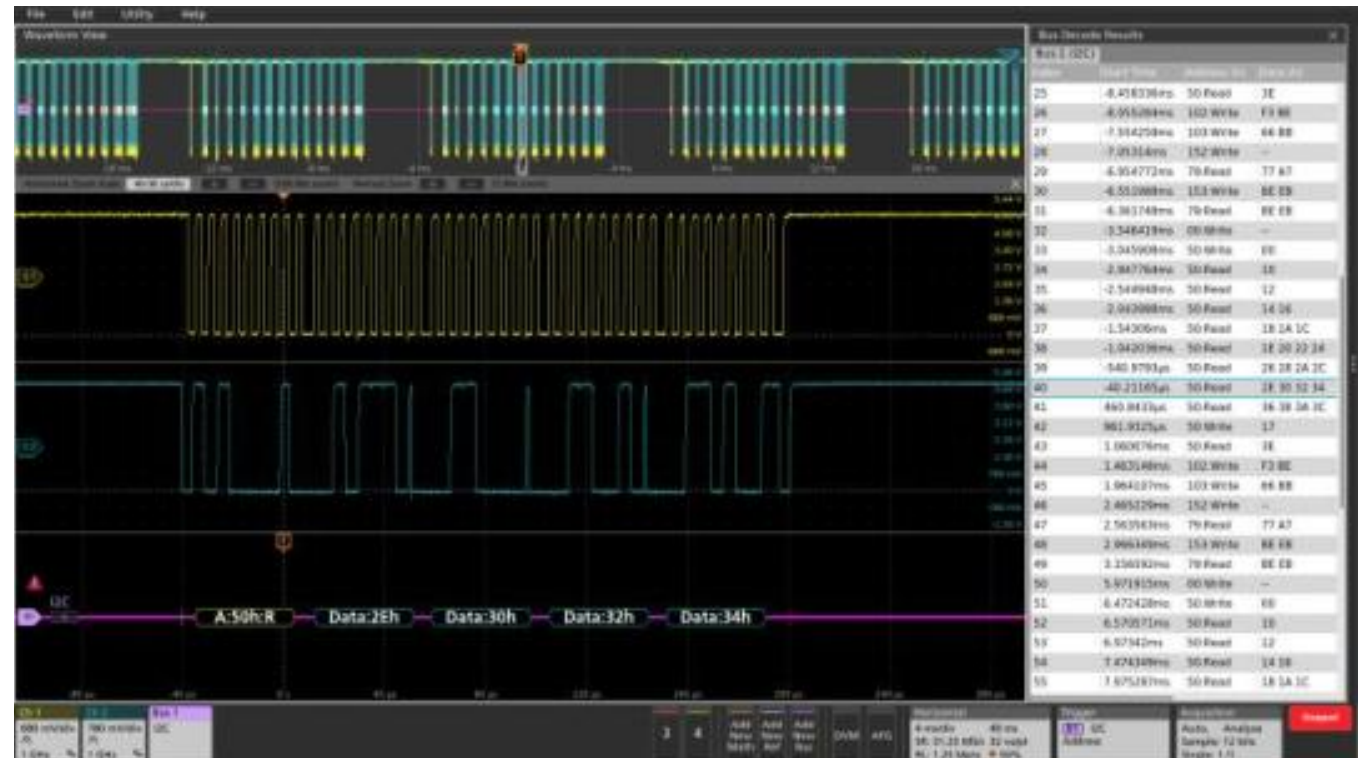
SPEED TIME TO INSIGHT AND ELIMINATE ERRORS WHEN DEBUGGING BUSES

- Trigger on, and decode, packet content of common serial standards
- Decoded bus presented time aligned with other inputs
- Decoded packet content also available for viewing in a tabular view

Results bar
can be hidden
for more
viewing area



- I²C
- SPI
- I3C
- CAN
- CAN-FD
- LIN
- FlexRay
- SENT
- Automotive Ethernet
- PSI5
- D-PHY
- RS-232
- SPMI
- USB LS/FS/HS
- eUSB2
- Ethernet 10/100BASE-T
- Audio I²S/LJ/RJ/TDM
- MIL-STD-1553
- ARINC429
- Spacewire
- 8b/10b
- NRZ
- SVID
- MDIO
- Manchester



Coming soon: eMMC, JTAG, QSPI

Automated Compliance Testing Packages

COMPLIANCE TESTING BUILDS INTEROPERABILITY CONFIDENCE

Automated compliance solutions provide

- Detailed test summary during execution
- Comprehensive pass/fail reports with embedded images and plots
- Debug using the base measurement library

- Faster test times
- Offline waveform analysis
- Margin testing



Compliance Test Solutions Available

- USB2.0
- Ethernet (100/1000Base-T; NBase-T, XGBT)
- Automotive Ethernet (10BaseT1S; 100/1000Base-T1)
- Industrial Ethernet (10Base-T1L)
- MIPI D-PHY v1.2
- DDR3 & LPDDR3

Note: Serial Compliance solutions require option 6-WIN (SSD with Windows)

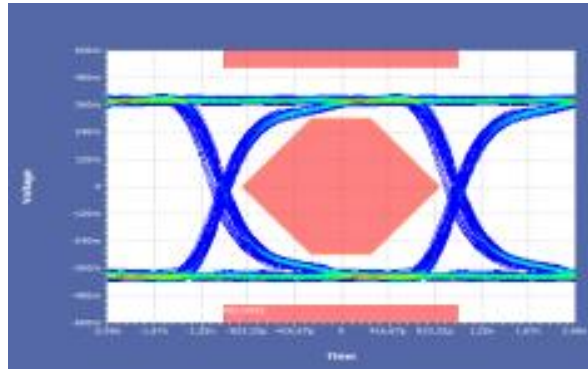
Debug Test Solutions Available

- LVDS
- DDR3 & LPDDR3
- PAM3

Integration Between Compliance & Debug

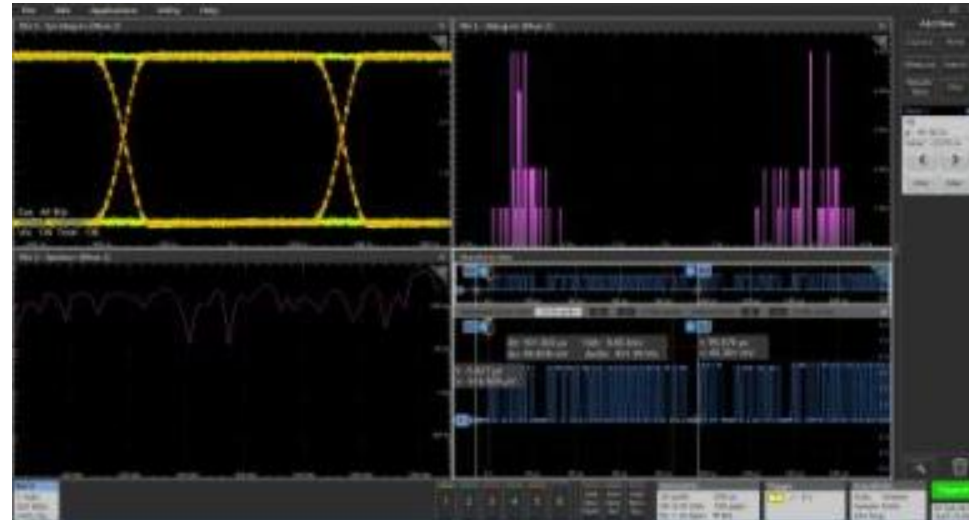
UTILIZE PASS/FAIL TESTING AND QUICKLY MOVE TO MANUAL TEST ON FAILURE

1. Automated test finds an error condition



Compliance Eye diagram plot generated by USB 2.0 application

2. Analyze the failure using base measurement libraries and analysis tools



Debugging a USB 2.0 waveform by placing cursors using Option DJA

Easily switch between Compliance and Debug

Automated Reporting

AUTOMATED TEST RESULTS WITH COMPREHENSIVE REPORTS

- Pass/Fail results with margin information for all included tests
- Images of mask test results
- Images of test waveforms
- Easily consumable report formats (pdf)

Tektronix TekExpress Ethernet Tx
100BASE-T Test Report

Setup Information			
DUT ID	DUT DEF	Scope Information	MS008_#1000000
Over Time	2018-09-25 10:00:38	Scope F/W Version	1.120.281
Device Type	Ethernet Tx	DATA Probe Model	TD1500
TekExpress Ethernet Tx Version	1.0.0.738 (Retail)	DATA Probe Serial Number	00-00006
TekExpress Firmware Version	4.5.0.18		
Execution Mode	Live		
Configuration Mode	True		
Overall Test Result	Pass		
Overall Execution Time	0:01:54		

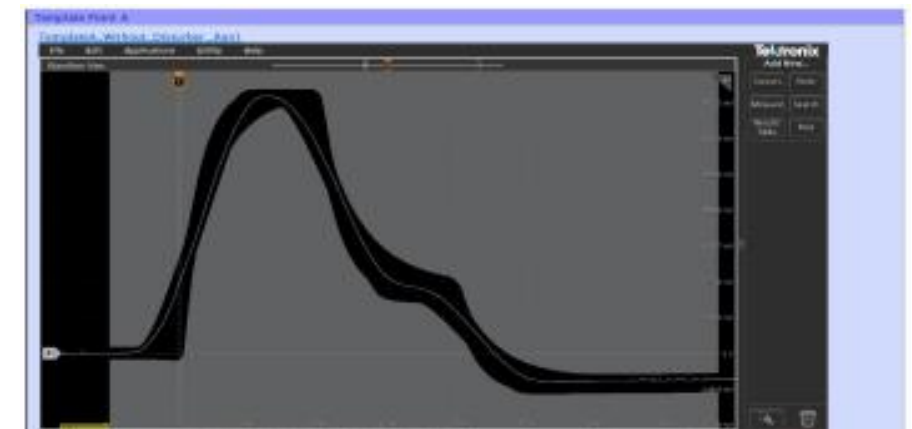
DUT COMMENT: | General comment

Test Name Summary Table	
Template Point A	Pass
Template Point B	Pass
Template Point C	Pass
Template Point D	Pass
Template Point E	Pass
Template Point F	Pass
Template Point G	Pass

Template Point A							
MEASUREMENT	Measured Value	Test Result	Margin	Low Limit	High Limit	Units	Comments
Template Point A AL_Distortion _Dist	0	Pass	11.0	N/A	0	dB	11% is segment No 1073

COMMENTS

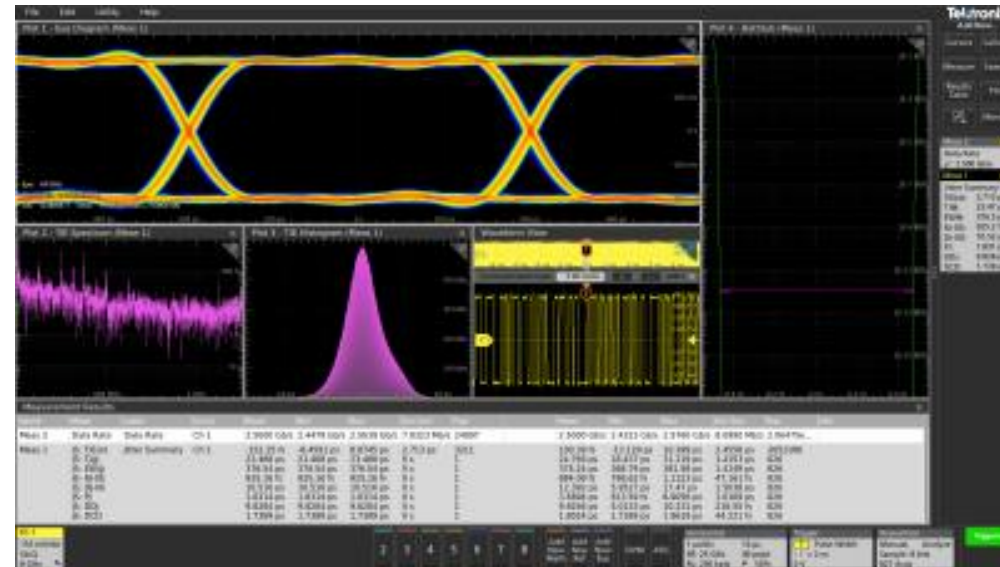
[Back to Summary Table](#)



Jitter and Eye Analysis

CHARACTERIZE KEY SYSTEM TIMING WITH JITTER & EYE ANALYSIS

- DPOJET functionality is integrated into the scope application for faster and more intuitive operation
- Jitter measurements are accessed in the same manner as basic measurements
- Jitter Summary simplifies set up of the most common jitter measurements and plots



Meas 3 1

Jitter Summary

- TIE(σ): 13.39 ps
- TJ@: 90.51 ps
- EW@: 576.2 ps
- RJ- $\delta\delta$: 2.287 ps
- DJ- $\delta\delta$: 58.48 ps
- PJ: 31.36 ps
- DDJ: 20.03 ps
- DCD: 13.55 ps

ADD MEASUREMENTS

Meas Summary: Meas Summary is a group consisting of the following measurements: TIE, TIE@, RJ, DJ, DDJ, DCD.

OFFER MEASUREMENTS

<input type="checkbox"/> Jitter Summary	<input type="checkbox"/> TIE	<input type="checkbox"/> Phase Noise
<input type="checkbox"/> TIE@	<input type="checkbox"/> RJ- $\delta\delta$	<input type="checkbox"/> DJ- $\delta\delta$
<input type="checkbox"/> PJ	<input type="checkbox"/> RJ	<input type="checkbox"/> DC
<input type="checkbox"/> DDJ	<input type="checkbox"/> DDJ	<input type="checkbox"/> WJ
<input type="checkbox"/> D	<input type="checkbox"/> P	<input type="checkbox"/> HW

EYE MEASUREMENTS >

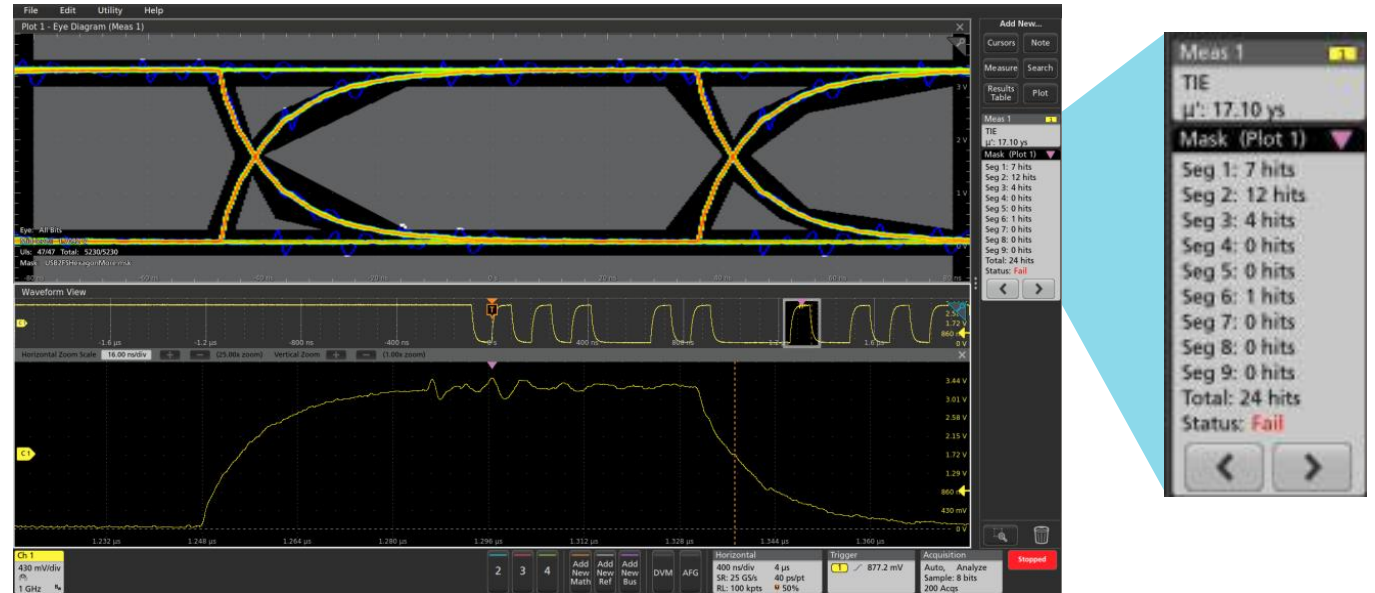
AMPLITUDE MEASUREMENTS >

TIME MEASUREMENTS >

Automated Eye Diagram Pass/Fail Testing

AUTOMATED PASS/FAIL TESTING FOR SERIAL SIGNALS

- Automated pass/fail mask testing on eye diagrams:
 - Included in 6-DJA jitter option
 - Verifies signal amplitudes and noise, timing jitter, and rise- and fall-times, with a single test
 - Masks specified by simple text file
 - Unlimited number of mask segments
 - User-specified pass/fail threshold and number of acquisitions to test
 - Manual navigation between violations
 - Eye diagram and mask hit data export for further analysis

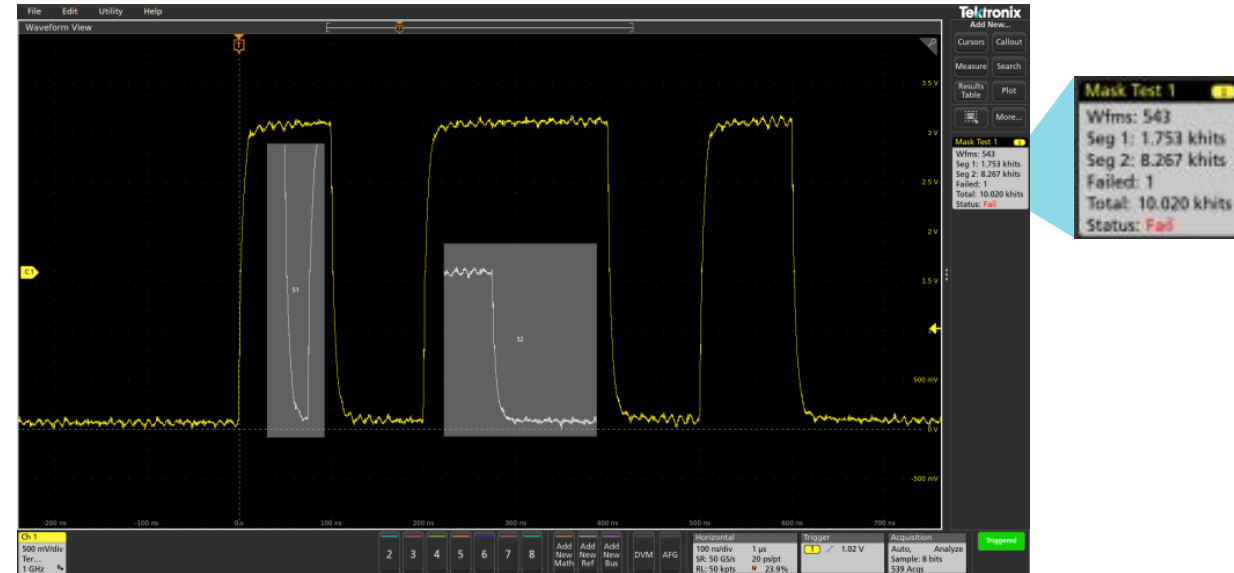


Eye diagram mask test, with user-specified pass-fail threshold of 10 mask violations (hits). This example shows navigation between hits and correlation to time-domain waveform.

Automated Pass/Fail Testing

AUTOMATED PASS/FAIL TESTING

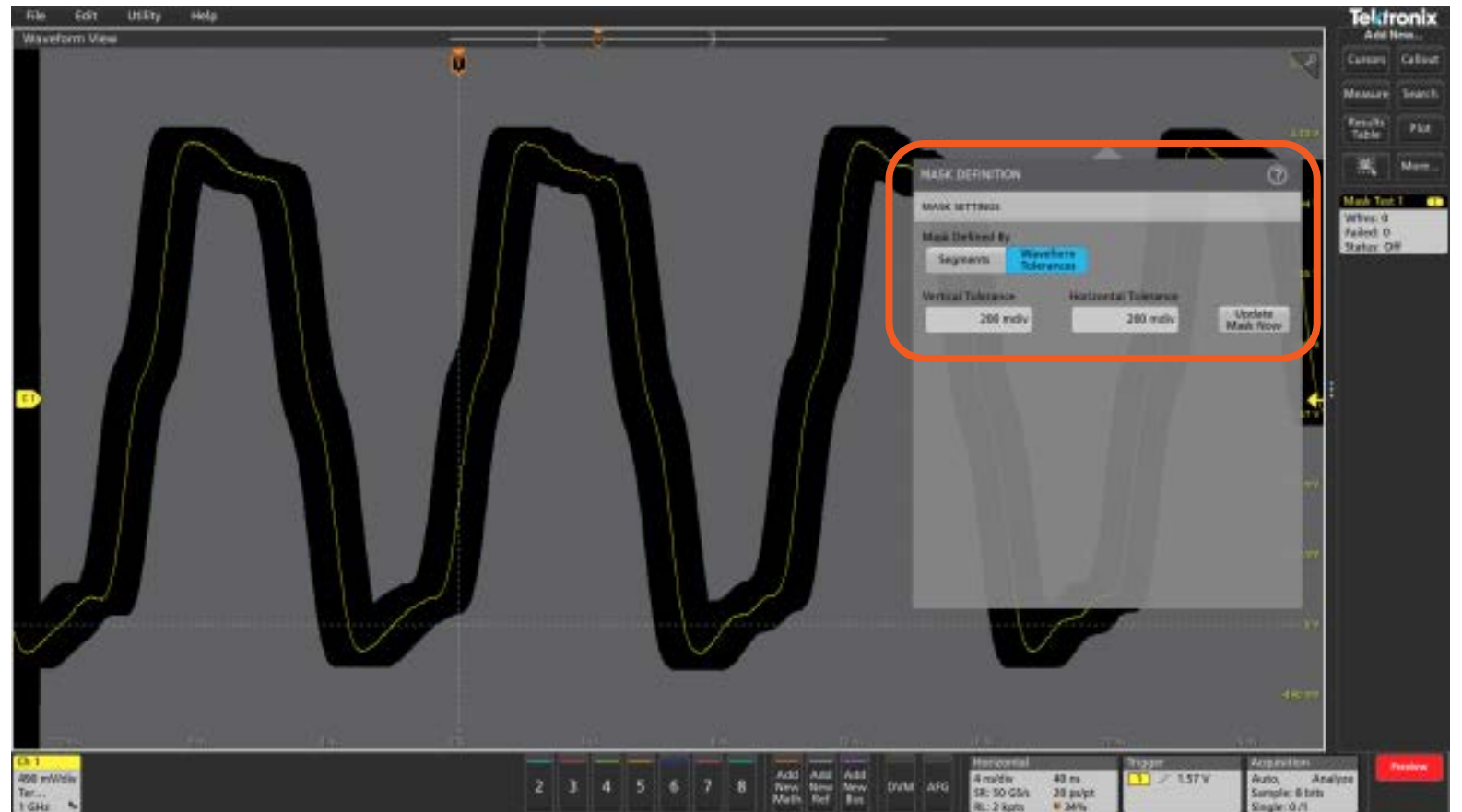
- Automated Pass/Fail testing
 - Option 6-MTM
 - Custom mask definitions created by drawing segments on the display
 - Unlimited number of mask segments
 - Triangle, Rectangle, Trapezoid, or Hexagon starting shapes
 - User-specified pass/fail threshold and number of waveforms to test
 - Action on hit, failure or pass include Save screen capture, Save waveform, Stop Acquisitions, SRQ



Automated Pass/Fail Mask Testing

PART OF OPTION 6-MTM

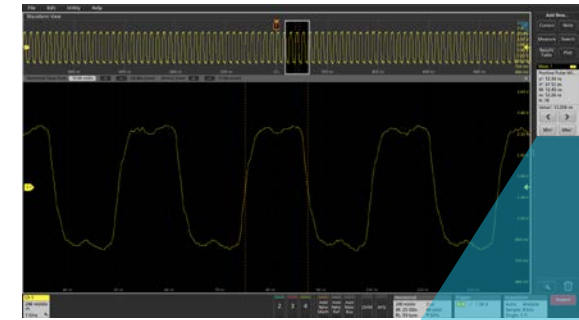
- Can now define mask via Waveform Tolerances
- Tolerance based masks do not move/scale with the waveform
- Can perform limit testing on multiple waveforms simultaneously
- User-specified pass/fail threshold and number of waveforms to test
- Action on hit, failure or pass include Save screen capture, Save waveform, Stop Acquisitions, SRQ



A Measurement is More than One Number

INTEGRATED STATISTICS, EASY MIN/MAX NAVIGATION SPEEDS INSIGHT INTO SIGNAL BEHAVIOR

- Each measurement has a badge in the Results Bar
- Turn on statistics to quantify signal characteristics over millions of acquisitions
- Quickly navigate through measurements
 - Arrow buttons move to the previous or next occurrence of the measurement and move the zoom window accordingly
 - Min' and Max' buttons go to Min and Max values in record
- Locally gate measurements by screen, cursors, logic, search or by time



Mean and standard deviation for this acquisition

Min and Max for all measurements on all acquisitions

Navigate quickly among measurements

A panel titled "Meas 1" with a yellow badge containing the number "1". It displays the following statistics:

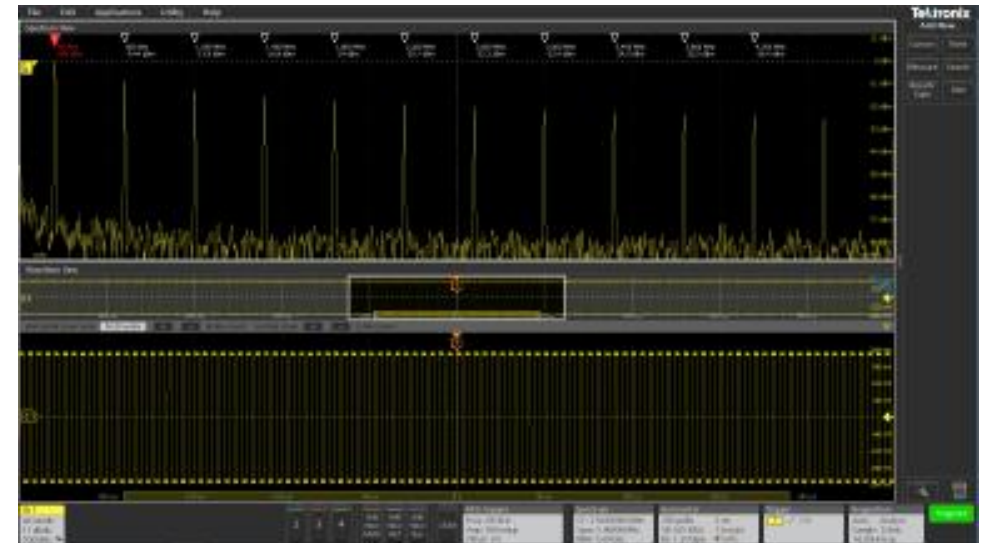
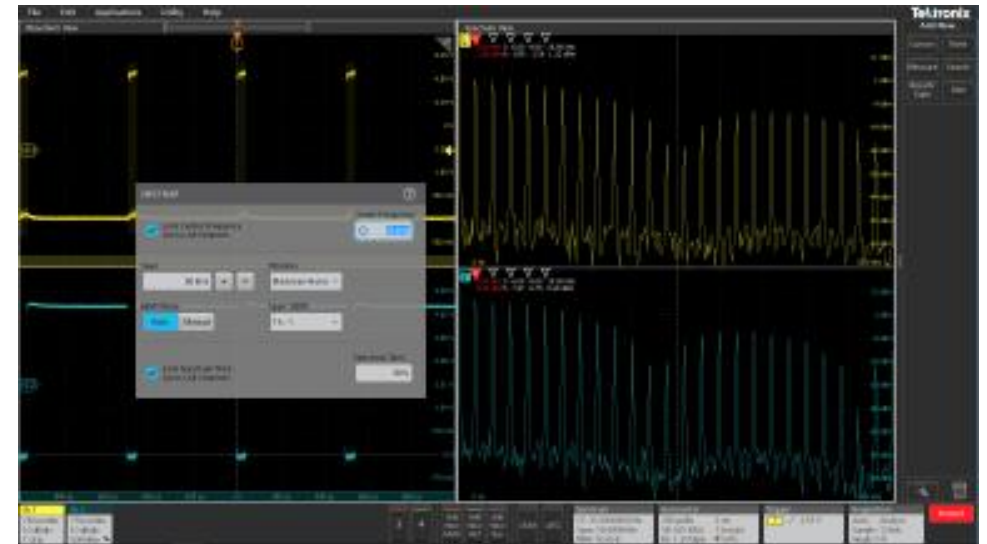
- Positive Pulse Wi...
- μ' : 12.34 ns
- σ' : 37.52 ps
- M: 12.43 ns
- m: 12.26 ns
- N: 79

Below the statistics, it shows "Value': 12.256 ns". At the bottom, there are four buttons: a left arrow button, a right arrow button, a "Min'" button, and a "Max'" button.

Spectrum Analysis on Any or All Channels

SPECTRUM VIEW - MIXED-DOMAIN ANALYSIS CAPABILITY (STANDARD FEATURES)

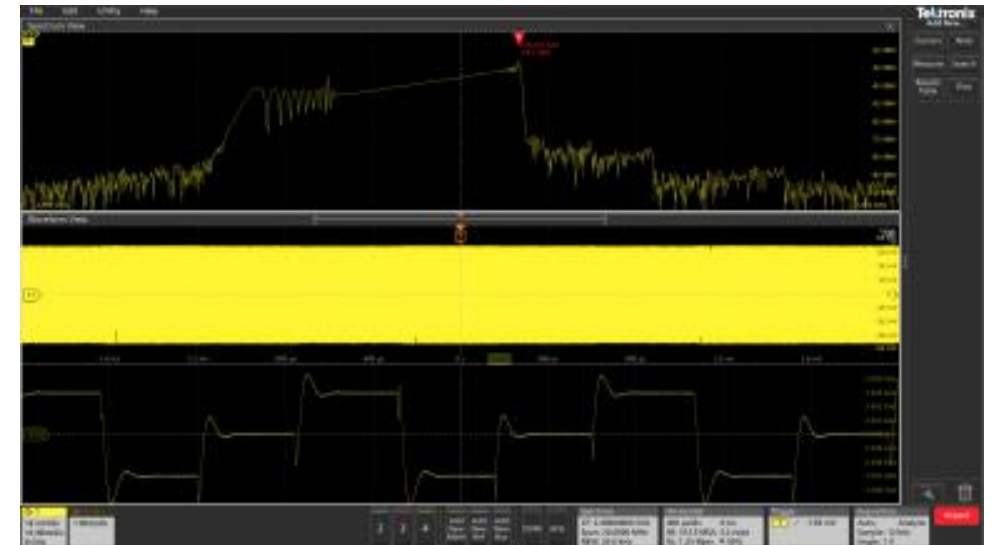
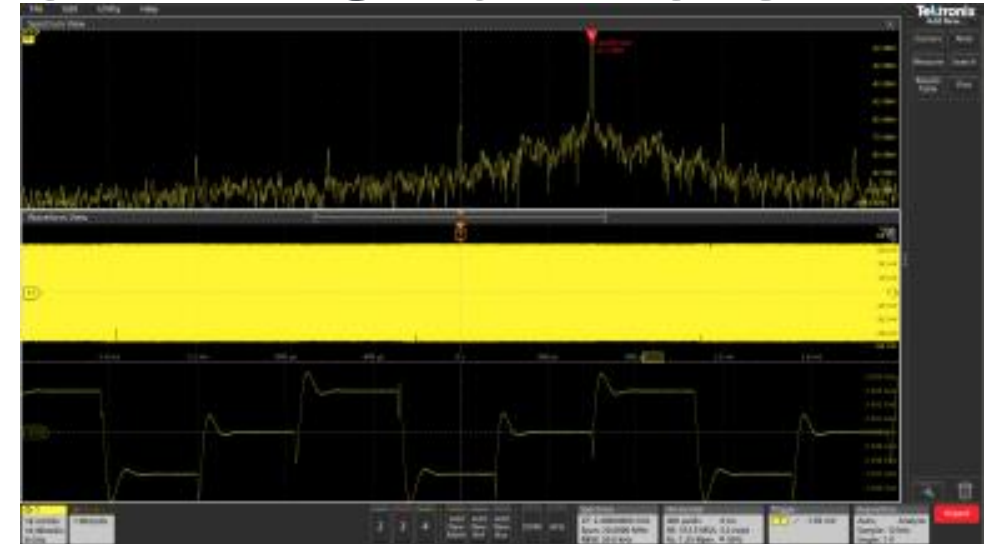
- Spectrum View provides simultaneous time- and frequency-domain views of each analog input signal with **independent acquisition settings in each domain**
 - Center Frequency
 - Span
 - Resolution Bandwidth
- **Time-correlated** time- and frequency-domain displays
- Normal, Max Hold, Min Hold, and Average traces
- Stacked and overlay frequency-domain displays
- Automated peak markers and manual markers



Spectrum Analysis on Any or All Channels

SPECTRUM VIEW - RF TIME DOMAIN TRACES (OPTION 6-SV-RFVT)

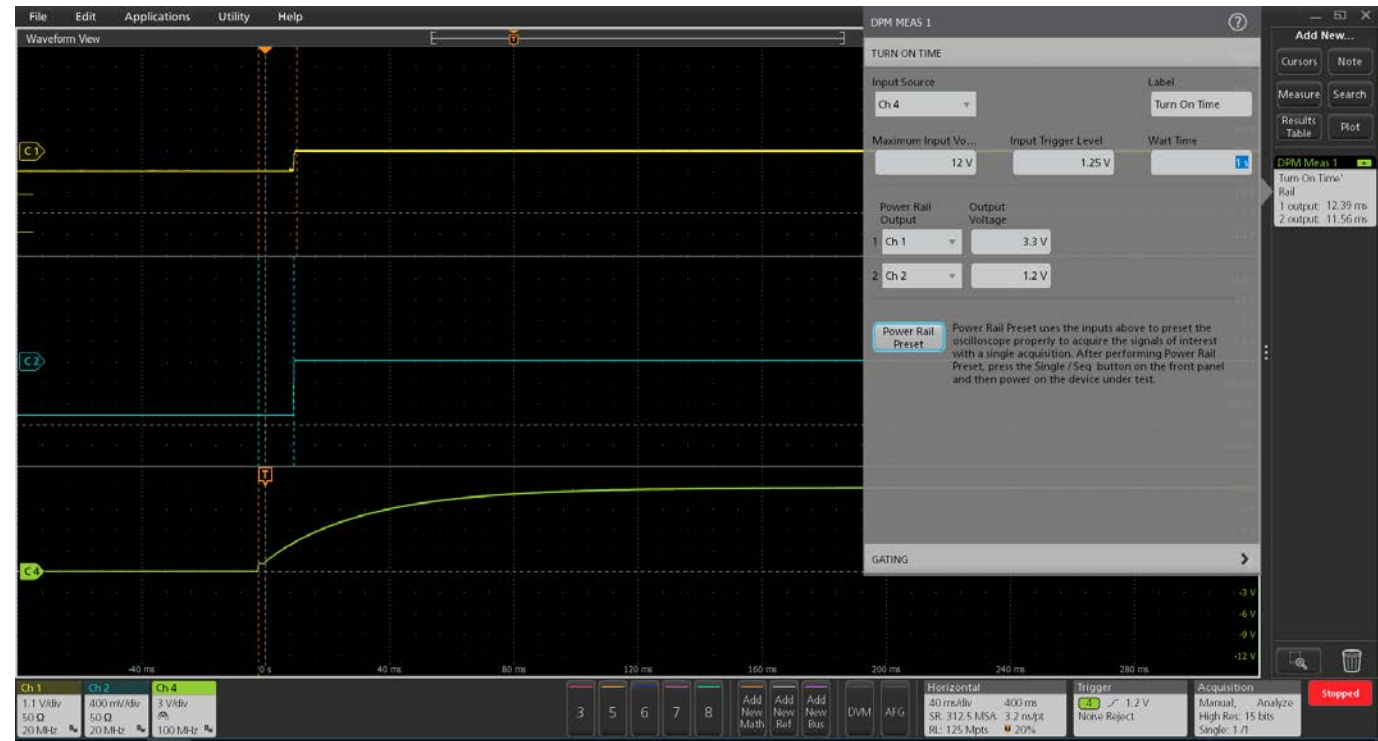
- Spectrum View **Time Domain Traces** make it easy to understand what's happening with a time-varying RF signal.
- Three RF time domain traces derived from the underlying I & Q data of Spectrum View
 - **Magnitude** – The instantaneous amplitude of the spectrum vs. time
 - **Frequency** – The instantaneous frequency of the spectrum relative to center frequency vs. time
 - **Phase** – The instantaneous phase of the spectrum relative to the center frequency vs. time
- **Trigger** on Magnitude vs. Time or Frequency vs. Time waveforms



Measure Power Rails on Eight Channels

MEASURE MULTIPLE POWER RAILS WITH ACCURACY

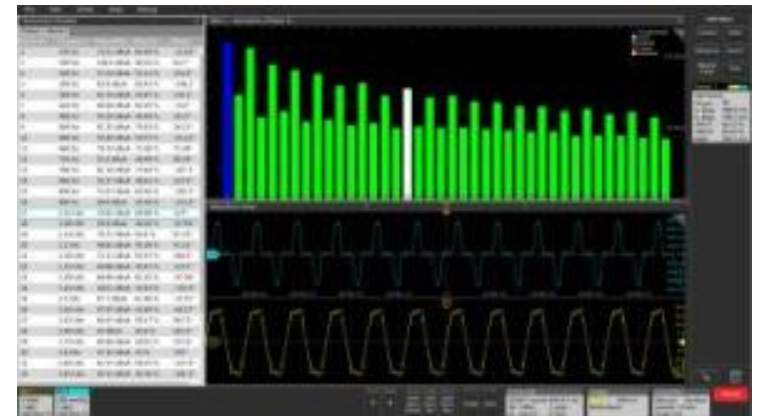
- **Low noise** measurements to see more real signal activity
- **High bandwidth** to see more signal content like harmonics and ripple
- **Large offsets** to view and analyze small signals riding on large DC voltages
- **Flexible connectivity** options to cover a broad range of challenges
- Digital Power Management (Option 6-DPM) software automates power rail testing



Power Supply Analysis

AUTOMATED POWER MEASUREMENTS MADE RELIABLE AND REPEATABLE

- Provides the user with application expertise
 - Algorithms and measurement techniques
 - Test limits for relevant industry standards
- Automates setup for measurements
- Ensures consistent and reliable measurements
- Enables efficient documentation of measurement results

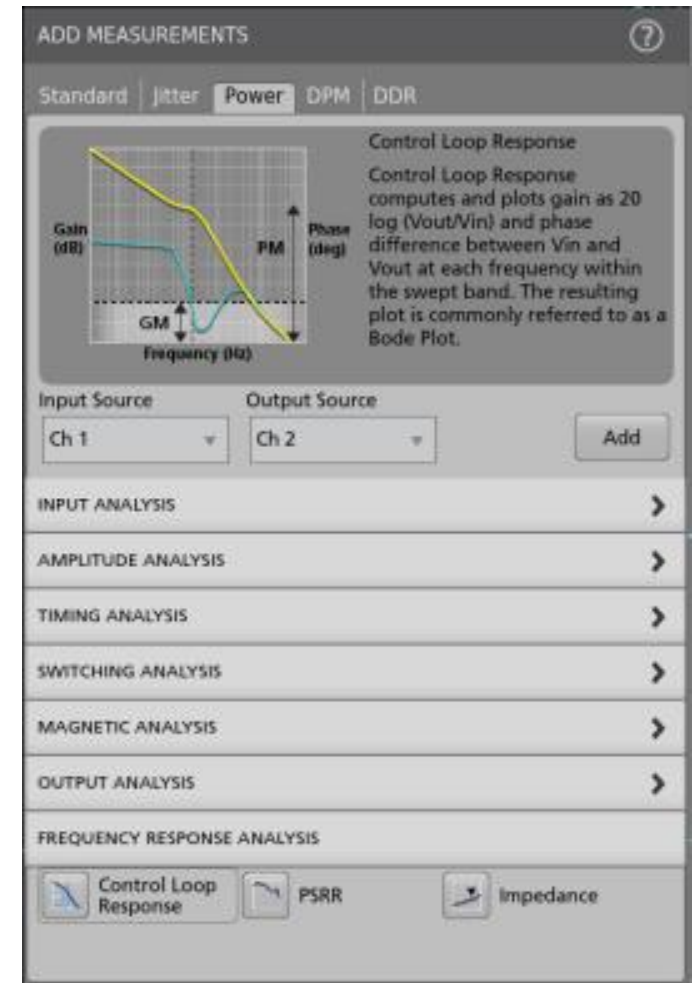


Power Current Harmonics

Power Supply Analysis

AUTOMATED POWER MEASUREMENTS

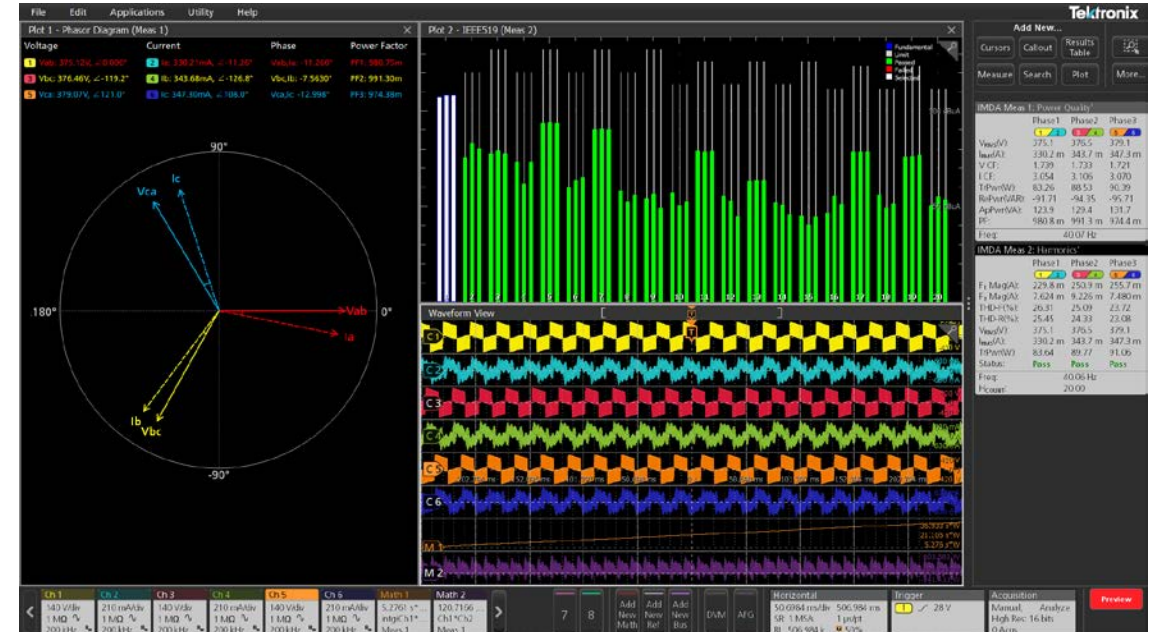
- Option 6-PWR and upgrades SUP6-PWR and SUP6-PWR-FL
- Option 6-DPM and upgrades SUP6-DPM and SUP6-DPM-FL
- Power tab in Add Measurements menu
 - Input Analysis
 - Power Quality
 - Harmonics
 - Input Capacitance
 - Inrush Current
 - Amplitude Analysis
 - Cycle Amplitude, Cycle Top, Cycle Base, Cycle Peak-to-Peak, Cycle Maximum, Cycle Minimum
 - New Magnetic Analysis
 - Magnetic Loss
 - Magnetic Property
 - Inductance
 - I vs. $\int V$
 - Timing Analysis
 - Period, Frequency, Positive Duty Cycle, Negative Duty Cycle, Positive Pulse Width, Negative Pulse Width
 - Switching Analysis
 - Switching Loss
 - SOA
 - dv/dt
 - di/dt
 - RDSon
 - Output Analysis
 - Line Ripple
 - Switching Ripple
 - Efficiency
 - Turn-on Time / Turn-off Time
 - Frequency Response
 - Control Loop Frequency Response (Bode Plot)
 - Power Supply Rejection Ratio (PSRR)
 - Impedance
 - Digital Power Management
 - Ripple
 - Overshoot
 - Turn on overshoot
 - Undershoot
 - DC rail voltage
 - Turn-on/Turn-off time
 - Jitter analysis



Inverters, Motors & Drives Analysis

INPUT, OUTPUT, HARMONICS, PHASOR DIAGRAM MEASUREMENTS

- **Unique phasor diagram** enables analysis of load types and designs
 - Displays magnitude and angle between voltage and current
- **Power Quality** shows ability of electronic equipment to consume the energy being supplied to it
- **Efficiency** measures the ratio of output power to input power
- Perform **Ripple analysis** to see AC components on DC voltages
- Full **Harmonics analysis** can test against standard limits and provide graphical and numerical views



Unmatched Probing Solutions

6 Series B MSO Probing Solutions

THE TDP7700 TRIMODE PROBE PLATFORM

TekFlex™ Connector

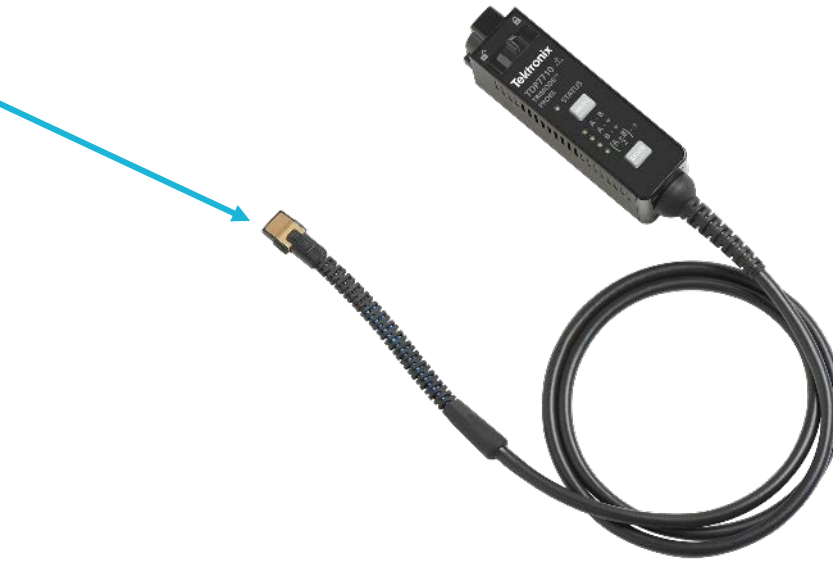
Leverages convenient accessories from Tektronix' high performance P7700 series

TriMode Functionality

One probe setup makes differential, single-ended, and common mode measurements accurately without moving the probe's connection points

Scalable Bandwidth Options

- 4 GHz - TDP7704
- 6 GHz - TDP7706
- 8 GHz - TDP7708
- **NEW!** 10 GHz – TDP7710



SMA adapter



Browser



Solder-in tips

Thin and flexible solder tips with active buffer amplifier at the tip for low probe loading

Versatile Probing Solutions

FROM ROBUST, FLEXIBLE CONFIGURATIONS TO APPLICATION SPECIFIC REQUIREMENTS

Task	Desired Characteristics	6 Series MSO Solution
General	<ul style="list-style-type: none">• Mechanically robust• Electrically forgiving• Convenient	TPP1000 1 GHz, 3.9 pF loading, 10x
High-Speed Data	<ul style="list-style-type: none">• High bandwidth• Challenging connections• Differential• Single-ended• Common Mode	TDP4000 4 GHz, Differential TAP4000 4 GHz, Single-ended TDP7700 4, 6, 8 , 10 GHz TriMode
Power	<ul style="list-style-type: none">• High voltage differential• Current• High common mode rejection• Low noise, high bandwidth	THDPxxxx, TMDPxxxx Differential TCP0030A Current Probes TIVHxx, TIVMx IsoVu Probes TPRxxxx, Power Rail Probes
Logic	<ul style="list-style-type: none">• Multi-channel• Flexible configuration• Ease of connection	TLP058 8-channel logic probe



BNC-to-SMA Adapter

- BNC-to-SMA adapter rated to 12 GHz for use on 6 Series B MSO
- Tek part # 103-0503-00





Upgradeable Where and When You Need

Upgrade at Any Time

CONFIDENCE FOR THE FUTURE

The scope that changes as your needs change

Protocol and Analysis Options

- Serial bus trigger and analysis
- Advanced Jitter Analysis
- Advanced Power Analysis and Digital Power Measurements
- Serial Compliance Test
- Memory Analysis
- Debug Test

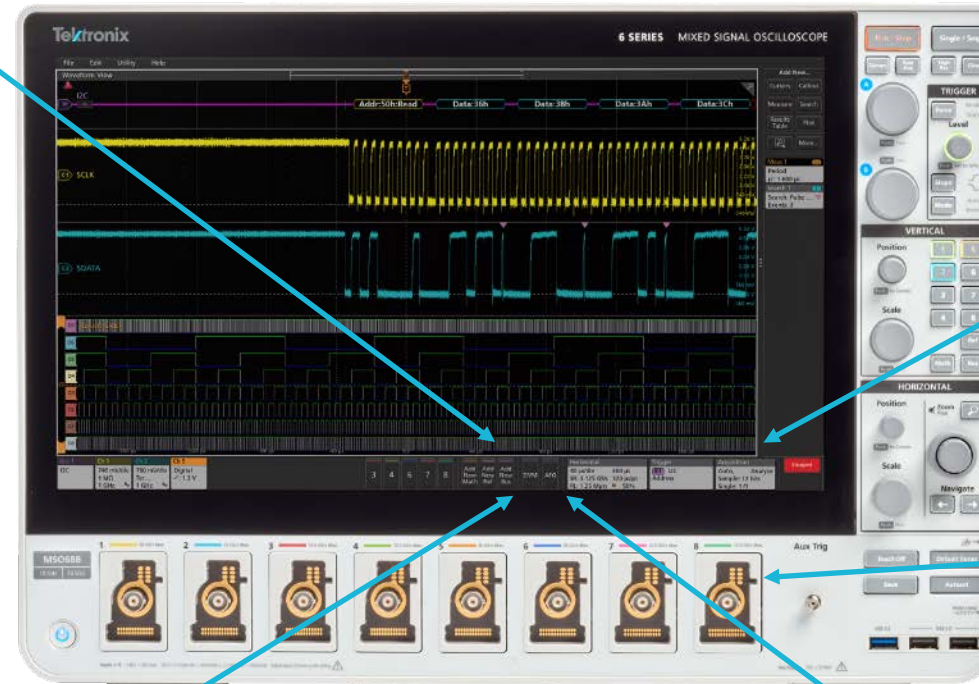
Bandwidth Upgrades

- 2.5 GHz
- 4 GHz
- 6 GHz
- 8 GHz
- 10 GHz

Digital Voltmeter / Trigger Frequency Counter
Free with product registration

Windows 10 Upgrade
Add solid state drive with Windows 10 license

Function Generator Upgrade
Arbitrary/ Function Generator



Increase Record Length
Increase to 125 Mpts / channel
Increase to 250 Mpts / channel
Increase to 500 Mpts / channel
Increase to 1 Gpts / channel

Add TLP058 Logic Probes
Access 8 digital channels on any FlexChannel input



Working Remotely

Remote Operation

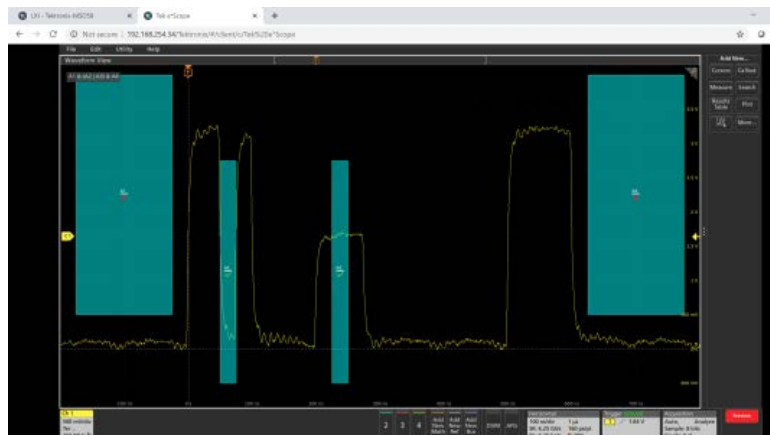
INCREASE COLLABORATION AND PRODUCTIVITY

e*Scope

- Control your oscilloscope through any browser
- See live updates of waveforms, analysis results and measurements
- Change acquisition settings, measurements and display configuration

TekScope PC Analysis Software

- Oscilloscope analysis without an oscilloscope
- Uses the 4/5/6 Series MSO user interface
- Connect to up to two scopes for live analysis on up to 16 channels



8 FEBRUARY 2021





For the Security Conscious

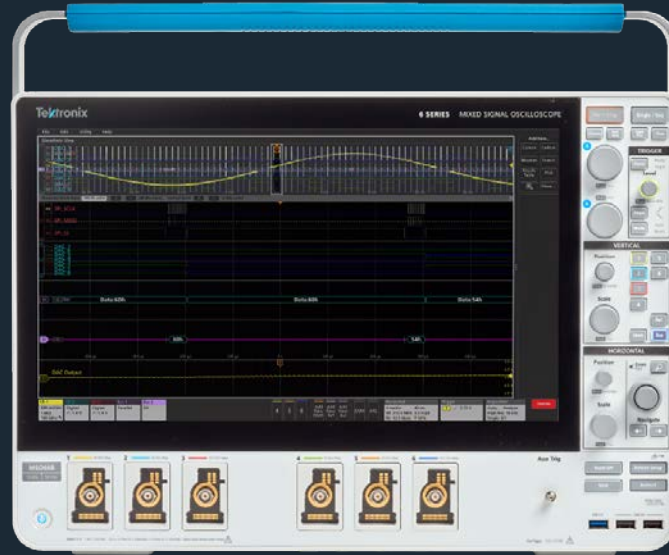
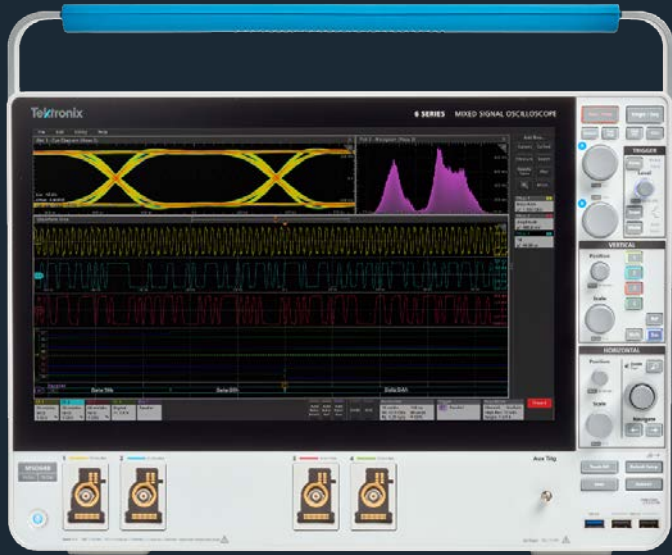
Enhanced Security Option

OPTION 6-SEC



	MSO64	NEW! MSO64B, MSO66B, MSO68B
Installation Requirement	Must be installed in the factory	Must be installed in the factory
Mass Storage	Standard Internal 250GB M.2 drive with Closed Embedded O/S <i>Note: Internal storage of setups, waveforms and images not available when option 6-SEC is enabled</i>	Standard 250GB Removable SSD with Closed Embedded O/S Optional 500GB Removable SSD with Windows 10 Optional 500GB Removable SSD with Closed Embedded O/S
User Data Location	<ul style="list-style-type: none"> Current state logs, Signal Path Compensation (SPC), Licenses, stored on internal M.2 drive No customer setups, waveforms and images stored internally <i>Note: USB storage devices can be used if ports are enabled</i>	<ul style="list-style-type: none"> SPC and Licenses stored on non-user-accessible memory on front panel All user data stored on removable SSD
Location of Calibration Constants, SPC, Licenses	Internal M.2 drive	Non-user-accessible memory on front panel
BIOS	Password protected	Password protected
I/O Port Enabling/Disabling	Password protected No USB devices work when ports are disabled	Password protected USB Keyboard and Mouse still functional
Firmware Upgrade Enabling/Disabling	Password protected	Password protected
Sanitization	Turn off power, remove internal M.2 drive (Difficult)	Turn off power and remove SSD (Easy)

6 Series B MSO Mixed Signal Oscilloscopes



Up to 10 GHz bandwidth

Best signal fidelity with 12-bit ADCs and ultra-low noise

4, 6 or 8 FlexChannel™ inputs

**More bandwidth. More channels. Less noise.
Same groundbreaking user experience.**

Built from the Engineer up



3 Series

4 Series

5 Series

6 Series B

of Analog Channels

2, 4

4, 6

4, 6, 8

4, 6, 8

Bandwidth

up to 1 GHz

up to 1.5 GHz

up to 2 GHz

up to 10 GHz

Vertical Resolution

8 bits

12 bits

12 bits

12 bits

Display

11.6" HD

13.3" HD

15.6" HD

15.6" HD

Inputs

TekVPI

FlexChannel

FlexChannel

FlexChannel

Advanced Analysis

Compliance/Jitter/Windows Compliance/Jitter/Windows

Ordering Information

How to Order a 6 Series B MSO



1 Select Base Model: MSO64B, MSO66B, or MSO68B

2 Bandwidth: 1 GHz, 2.5 GHz, 4 GHz, 6 GHz, 8 GHz, 10 GHz
Record Length: 62.5 M standard; 125 M, 250 M, 500 M, 1 G optional
Other: Arbitrary/Function Generator; TLP058 digital probes, SEC

3 Operating System: Embedded standard; Windows 10 optional
Analysis: Power Measurements, Jitter, Serial Protocol, Compliance Test,
Spectrum View, Memory, LVDS

4 Accessories: Rack Mount, Hard Case, Probes, Adapters
Service Options: Extended Repair, Calibration

6 Series B MSO

BASE PRODUCTS WITH UNIQUE BANDWIDTH OPTIONS

Mainframe
Opt. MSO6xB 6-BW-1000 (1 GHz)
Opt. MSO6xB 6-BW-2500 (2.5 GHz)
Opt. MSO6xB 6-BW-4000 (4 GHz)
Opt. MSO6xB 6-BW-6000 (6 GHz)
Opt. MSO6xB 6-BW-8000 (8 GHz)
Opt. MSO6xB 6-BW-10000 (10 GHz)

6 Series B MSO

INSTRUMENT OPTIONS

Option	Description
6-AFG	License; Installed Option; Arbitrary function generator
6-AUTOEN-BND	Automotive Ethernet Compliance, Signal Separation, PAM3 Analysis, 100BASE-T1 Decode software
6-AUTOEN-SS	Automotive Ethernet Signal Separation
6-CMAUTOEN	License; Installed Option; Automotive Ethernet (100Base-T1, 1000Base-T1) automated compliance test solution using TekExpress Automation Platform
6-CMAUTOEN10	License; Installed Option; Automotive Ethernet (10Base-T1S Short Reach) automated compliance test solution using TekExpress Automation Platform
6-CMDDR3	License; Installed Option; DDR3 and LPDDR3 memory automated compliance test solution using TekExpress Automation Platform
6-CMDPHY	License; Installed Option; MIPI D-PHY v1.2 automated compliance test solution using TekExpress Automation Platform
6-CMENET	License; Installed Option; Ethernet (1000Base-T, 100Base-T) automated compliance solution (Min BW 1 GHz) using TekExpress Automation Platform
6-CMINDUEN10	License; Installed Option; Industrial Ethernet (10Base-T1L Long Reach) automated compliance test solution
6-CMNBASET	License; Installed Option; Ethernet (2.5G and 5G Base-T) automated compliance solution (Min BW 2.5 GHz) using TekExpress Automation Platform
6-CMUSB2	License; Installed Option; USB2.0 automated compliance test application using TekExpress Automation Platform (Requires TDSUSBF USB test fixture). ≥2.5 GHz bandwidth required for high-speed USB
6-CMXGBT	License; Installed Option; Ethernet (10G BASE-T) Automated Compliance Solution (Min BW 4 GHz) using TekExpress Automation Platform

6 Series B MSO

INSTRUMENT OPTIONS

Option	Description
6-DBDDR3	License; Installed Option; DDR3 and LPDDR3 Analysis and Debug Solution (Min BW 4 GHz). Requires 6-DJA
6-DBLVDS	License; Installed Option; TekExpress automated LVDS test solution
6-DJA	License; Installed Option; Advanced jitter and eye analysis
6-DPM	License; Installed Option; Digital power management
6-IMDA	License; Installed Option; Inverters, Motors and Drives analysis
6-IMDA-DQ0	License; Installed Option; DQ0 measurement for IMDA
6-MTM	License; Installed Option; Mask and Limit testing
6-PAM3	License; Installed Option; PAM Analysis software
6-PWR	License; Installed Option; Power measurement and analysis
6-PS2	Installed Option; Power Solution Bundle (PWR, THDP0200, TCP0030A, 067-1686-xx (deskew fixture))
6-RL-1	License; Installed Option; Extend record length to 125 M/ch maximum
6-RL-2	License; Installed Option; Extend record length to 250 M/ch maximum
6-RL-3	License; Installed Option; Extend record length to 500 M/ch maximum
6-RL-4	License; Installed Option; Extend record length to 1 G/ch maximum
6-VID	License; Installed Option; Analog Video Trigger (NTSC, PAL, SECAM)

6 Series B MSO

SERIAL DECODE OPTIONS

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

6 Series B MSO

INSTRUMENT OPTIONS

Option	Description
6-SEC	Installed Option; Enhanced security for instrument declassification and password protected enabling and disabling of all communication ports and firmware upgrades
6-SV-BW-1	License; Installed Option; Increase Spectrum View Capture Bandwidth to 2 GHz
6-SV-RFVT	License; Installed Option; Spectrum View RF versus Time Analysis and Trigger
6-WIN	Installed Option; Removable SSD with Windows license

ACCESSORIES

Option	Description
TLP058	8 channel general purpose logic probe for 5 and 6 Series MSO oscilloscopes. Includes accessory kit.
HC5	Hard case for the 5 & 6 Series MSO
RM5	Rackmount kit for the 5 & 6 Series MSO
103-0503-00	12 GHz BNC-to-SMA adapter

6 Series B MSO

SERVICE OPTION

Option	Description
R3	Standard Warranty Extended to 3 Years. Covers parts: labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates.
R5	Standard Warranty Extended to 5 Years. Covers parts: labor and 2-day shipping within country. Guarantees faster repair time than without coverage. All repairs include calibration and updates.
T3	Three Year Total Protection Plan, includes repair or replacement coverage from wear and tear, accidental damage, ESD or EOS plus preventative maintenance. Including a 5 day turnaround time and priority access to customer support
T5	Five Year Total Protection Plan, includes repair or replacement coverage from wear and tear, accidental damage, ESD or EOS plus preventative maintenance. Including a 5 day turnaround time and priority access to customer support
C3	Calibration service 3 years. Includes traceable calibration or functional verification where applicable: for recommended calibrations. Coverage includes the initial calibration plus 2 years calibration coverage.
C5	Calibration service 5 years. Includes traceable calibration or functional verification where applicable: for recommended calibrations. Coverage includes the initial calibration plus 4 years calibration coverage.
D1	Calibration Data Report
D3	Calibration Data Report 3 Years (with Option C3)
D5	Calibration Data Report 5 Years (with Option C5)

6 Series B MSO

POST-PURCHASE UPGRADES

Option	Description
SUP6-AFG	License; Arbitrary function generator for 6 Series Oscilloscopes; Node locked
SUP6-AUTOEN-BND	License; Automotive Ethernet Compliance, Signal Separation, PAM3 Analysis, 100BASE-T1 Decode software; Node locked
SUP6-AUTOEN-SS	License; Automotive Ethernet signal separation; Node Locked
SUP6-CMAUTOEN	License; Automotive Ethernet (100/1000Base-T1) automated compliance test application; Node locked
SUP6-CMAUTOEN10	License; Automotive Ethernet (10Base-T1S Short Reach) automated compliance test application; Node locked
SUP6-CMDDR3	License; DDR3 and LPDDR3 Automated Compliance Solution for 6 Series Oscilloscope (Min BW 8 GHz) using TekExpress Automation Platform; Node Locked
SUP6-CMDPHY	License; MIPI D-PHY v1.2 automated compliance test solution using TekExpress Automation Platform
SUP6-CMENET	License; Ethernet (1000Base-T, 100Base-T) automated compliance solution (Min BW 1 GHz) using TekExpress Automation Platform
SUP6-CMINDUEN10	License; Industrial Ethernet (10Base-T1L Long Reach) automated compliance test solution; Node Locked
SUP6-CMNBASET	License; Ethernet (2.5G and 5G BASE-T) Automated Compliance Solution for 6 Series oscilloscopes (Min BW 2.5 GHz) using TekExpress Automation Platform; Node Locked
SUP6-CMUSB2	License; USB2.0 automated compliance test application (Requires TDSUSBF USB test fixture). ≥2.5 GHz bandwidth required for high-speed USB; Node locked
SUP6-CMXGBT	License; Ethernet (10G BASE-T) Automated Compliance Solution for 6 Series oscilloscopes (Min BW 4 GHz) using TekExpress Automation Platform; Node Locked

6 Series B MSO

POST-PURCHASE UPGRADES

Option	Description
SUP6-DBDDR3	License; DDR3 and LPDDR3 Analysis and Debug Solution (Min BW 4 GHz). Requires 6-DJA
SUP6-DBLVDS	License; TekExpress automated LVDS test solution for 6 Series oscilloscopes; Node locked
SUP6-DJA	License; Advanced jitter and eye analysis on 6 Series oscilloscopes; Node locked
SUP6-DPM	License; Digital power management
SUP6-DVM	License; Digital voltmeter and frequency counter on 6 Series oscilloscopes; Node locked
SUP6B-IMDA	License; Inverters, Motors and Drives analysis
SUP6B-IMDA-DQ0	License; DQ0 measurement for IMDA
SUP6-MTM	License; Mask and Limit testing; Node locked
SUP6-PAM3	License; PAM3 Analysis (requires option 6-DJA); Node Locked
SUP6-PWR	License; Power measurement and analysis; Node locked
SUP6-RL-1	License; Extend record length; from 62.5M/ch to 125M/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-2	License; Extend record length; from 62.5M/ch to 250M/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-3	License; Extend record length; from 62.5M/ch to 500M/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-4	License; Extend record length; from 62.5M/ch to 1G/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-1T2	License; Extend record length; from 125M/ch to 250M/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-1T3	License; Extend record length; from 125M/ch to 500M/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-1T4	License; Extend record length; from 125M/ch to 1G/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-2T3	License; Extend record length; from 250M/ch to 500M/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-2T4	License; Extend record length; from 250M/ch to 1G/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-RL-3T4	License; Extend record length; from 500M/ch to 1G/ch maximum on 6 Series oscilloscopes; Node locked
SUP6-VID	License; Analog Video Trigger (NTSC, PAL, SECAM); Node locked

6 Series B MSO

POST-PURCHASE UPGRADES

Option	Description
SUP6-SRAERO	License; Aerospace serial triggering and analysis (MIL-STD-1553, ARINC429) on 6 Series oscilloscopes; Node locked
SUP6-SRAUDIO	License; Audio serial triggering and analysis (I2S, LJ, RJ, TDM) on 6 Series oscilloscopes; Node locked
SUP6-SRAUTO	License; Automotive serial triggering and analysis (CAN, CAN-FD, LIN, FlexRay) on 6 Series oscilloscopes; Node locked
SUP6-SRAUTOEN1	License; 100Base-T1 Automotive Ethernet serial decode; Node locked
SUP6-SRAUTOSEN	License; Automotive sensor serial triggering and analysis (SENT) on 6 Series oscilloscopes; Node locked
SUP6-SRCOMP	License; Computer serial triggering and analysis (RS-232/422/485/UART) on 6 Series oscilloscopes; Node locked
SUP6-SRDPHY	License; MIPI D-PHY serial analysis (CSI-2, DSI-1); Node locked
SUP6-SREMBD	License; Embedded serial triggering and analysis (I2C, SPI) on 6 Series oscilloscopes; Node locked
SUP6-SRENET	License; Ethernet serial triggering and analysis (10BASE-T, 100BASE-TX) on 6 Series oscilloscopes; Node locked
SUP6-SRI3C	License; I3C Serial Analysis (I3C); Node Locked
SUP6-SR8B10B	License; 8b10b serial analysis; Node locked
SUP6-SRMANCH	License; Manchester serial analysis; Node locked
SUP6-SRMDIO	License; MDIO serial analysis; Node locked
SUP6-SRRNZ	License; Upgrade NRZ serial analysis; Node locked
SUP6-SRPM	License; Power management serial triggering and analysis (SPMI); Node locked
SUP6-SRPSI5	License; PSI5 Serial analysis (PSI5); Node locked
SUP6-SRSPACEWIRE	License; SPACEWIRE serial analysis; Node locked
SUP6-SRSVID	License; SVID serial analysis; Node locked
SUP6-SRUSB2	License; USB serial triggering and analysis (USB 2.0 LS, FS, HS); Node locked
SUP6-SREUSB2	License; eUSB2 serial analysis; Node locked

6 Series B MSO

POST PURCHASE UPGRADES

Option	Description
SUP6-SV-BW-1	License; Increase Spectrum View Capture Bandwidth to 2 GHz; Node locked
SUP6-SV-RFVT	License; Spectrum View RF versus Time Analysis; Node locked
SUP6B-WIN	Removable SSD with Windows license on 6 Series B oscilloscopes
SUP6B-LNX	Removable SSD with Embedded Operating System on 6 Series B oscilloscopes

POST-PURCHASE UPGRADES – FLOATING CONFIGURATION

Option	Description
SUP6-AFG-FL	License; Arbitrary function generator for 6 Series Oscilloscopes; Floating
SUP6-AUTOEN-SS-FL	License; Automotive Ethernet signal separation; Floating
SUP6-CMAUTOEN-FL	License; Automotive Ethernet (100/1000Base-T1) automated compliance test application; Floating
SUP6-CMAUTOEN10-FL	License; Automotive Ethernet (10Base-T1S Short Reach) automated compliance test application; Floating
SUP6-CMDDR3-FL	License; DDR3 and LPDDR3 Automated Compliance Solution for 6 Series Oscilloscope (Min BW 8 GHz) using TekExpress Automation Platform; Floating
SUP6-CMDPHY-FL	License; MIPI D-PHY v1.2 automated compliance test solution using TekExpress Automation Platform; Floating
SUP6-CMENET-FL	License; Ethernet (1000Base-T, 100Base-T) automated compliance solution (Min BW 1 GHz) using TekExpress Automation Platform; Floating
SUP6-CMINDUEN10-FL	License; Industrial Ethernet (10Base-T1L Long Reach) automated compliance test solution; Floating
SUP6-CMNBASET-FL	License; Ethernet (2.5G and 5G BASE-T) Automated Compliance Solution for 6 Series oscilloscopes (Min BW 2.5 GHz) using TekExpress Automation Platform; Floating
SUP6-CMUSB2-FL	License; USB2.0 automated compliance test application (Requires TDSUSBF USB test fixture). ≥2.5 GHz bandwidth required for high-speed USB; Floating
SUP6-CMXGBT-FL	License; Ethernet (10G BASE-T) Automated Compliance Solution for 6 Series oscilloscopes (Min BW 4 GHz) using TekExpress Automation Platform; Floating

6 Series MSO B

POST-PURCHASE UPGRADES – FLOATING CONFIGURATION

Option	Description
SUP6-DBDDR3-FL	License; DDR3 and LPDDR3 Analysis and Debug Solution (Min BW 4 GHz). Requires 6-DJA; Floating
SUP6-DBLVDS-FL	License; TekExpress automated LVDS test solution; Floating
SUP6-DJA-FL	License; Advanced jitter and eye analysis on 6 Series oscilloscopes; Floating
SUP6-DPM-FL	License; Digital power management; Floating
SUP6B-IMDA-FL	License; Inverters, Motors and Drives analysis; Floating
SUP6B-IMDA-DQ0-FL	License; DQ0 measurement for IMDA; Floating
SUP6-MTM-FL	License; Mask testing; Floating
SUP6-PAM3-FL	License; PAM3 Analysis (requires option 6-DJA); Floating
SUP6-PWR-FL	License; Power measurement and analysis; Floating
SUP6-RL-1-FL	License; Extend record length; from 62.5M/ch to 125M/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-2-FL	License; Extend record length; from 62.5M/ch to 250M/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-3-FL	License; Extend record length; from 62.5M/ch to 500M/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-4-FL	License; Extend record length; from 62.5M/ch to 1G/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-1T2-FL	License; Extend record length; from 125M/ch to 250M/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-1T3-FL	License; Extend record length; from 125M/ch to 500M/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-1T4-FL	License; Extend record length; from 125M/ch to 1G/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-2T3-FL	License; Extend record length; from 250M/ch to 500M/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-2T4-FL	License; Extend record length; from 250M/ch to 1G/ch maximum on 6 Series oscilloscopes; Floating
SUP6-RL-3T4-FL	License; Extend record length; from 500M/ch to 1G/ch maximum on 6 Series oscilloscopes; Floating
SUP6-VID-FL	License; Analog Video Trigger (NTSC, PAL, SECAM); Floating

6 Series MSO B

POST-PURCHASE UPGRADES – FLOATING CONFIGURATION

Option	Description
SUP6-SRAERO-FL	License; Aerospace serial triggering and analysis (MIL-STD-1553, ARINC429); Floating
SUP6-SRAUDIO-FL	License; Audio serial triggering and analysis (I2S, LJ, RJ, TDM)
SUP6-SRAUTO-FL	License; Automotive serial triggering and analysis (CAN, CAN-FD, LIN, FlexRay); Floating
SUP6-SRAUTOEN1-FL	License; 100Base-T1 Automotive Ethernet serial decode; Floating
SUP6-SRAUTOSEN-FL	License; Automotive sensor serial triggering and analysis (SENT); Floating
SUP6-SRCOMP-FL	License; Computer serial triggering and analysis (RS-232/422/485/UART); Floating
SUP6-SRDPHY-FL	License; MIPI D-PHY serial analysis; Floating
SUP6-SREMBD-FL	License; Embedded serial triggering and analysis (I2C, SPI); Floating
SUP6-SRENET-FL	License; Ethernet serial triggering and analysis (10BASE-T, 100BASE-TX); Floating
SUP6-SRI3C-FL	License; I3C Serial Analysis (I3C); Floating
SUP6-SR8B10B-FL	License; 8b10b serial analysis; Floating
SUP6-SRMANCH-FL	License; Manchester serial analysis; Floating
SUP6-SRMDIO-FL	License; MDIO serial analysis; Floating
SUP6-SRRNZ-FL	License; NRZ serial analysis; Floating
SUP6-SRPM-FL	License; Power management serial triggering and analysis (SPMI); Floating
SUP6-SRPSI5-FL	License; PSI5 serial analysis; Floating
SUP6-SRSPACEWIRE-FL	License; SPACEWIRE serial analysis; Floating
SUP6-SRSVID-FL	License; SVID serial analysis; Floating
SUP6-SRUSB2-FL	License; USB serial triggering and analysis (USB 2.0 LS, FS, HS); Floating
SUP6-SREUSB2-FL	License; eUSB2 serial analysis; Floating

6 Series B MSO Pricing

POST PURCHASE UPGRADES – FLOATING CONFIGURATION

Option	Description
SUP6-SV-BW-1-FL	License; Increase Spectrum View Capture Bandwidth to 2 GHz; Floating
SUP6-SV-RFVT-FL	License; Spectrum View RF versus Time Analysis; Floating

6 Series B MSO

STANDARD ACCESSORIES

Accessory
One TPP1000 passive probe per FlexChannel®
Installation and Safety Instructions, printed manual (translated in English, Japanese, Simplified Chinese)
Front cover with integrated accessory pouch
Mouse
Power cord (region specific)
Calibration certificate documenting traceability to National Metrology Institute(s) and ISO9001 quality system registration
One-year warranty covering all parts and labor on the 6 Series MSO instrument. One-year warranty covering all parts and labor on included probes.

Probe Type	Recommended Probes	Description
Voltage Probes	Passive Voltage	
	TPP0502	Passive, 2X, 300V CAT II, 500MHz (TekVPI)
	Active Voltage	
	TAP1500	Active, 10x, 8V, 1.0pF, 1.5 GHz (TekVPI)
	TAP2500	Active, 10x, 4V, 0.8pF, 2.5 GHz (TekVPI)
	TAP3500	Active, 10x, 4V, 0.8pF, 3.5 GHz (TekVPI)
	TAP4000	Active, 10x, 4V, 0.8pF, 4 GHz (TekVPI)
	High Voltage Differential	
	THDP0100	6kV, 100x/1000x, 100MHz high voltage differential probe (TekVPI)
	THDP0200	1.5kV, 50x/500x, 200MHz high voltage differential probe (TekVPI)
	TMDP0200	750V, 25x/250x, 200MHz high voltage differential probe (TekVPI)
	High Voltage Single Ended	
	TPP0850	2.5kV _{peak} , 50x, 800MHz high voltage passive probe (TekVPI)
	High Speed Differential Probes	
	TDP1000	1 GHz differential active FET probe (±42V) (TekVPI)
	TDP1500	1.5 GHz differential active FET probe (±8.5V) (TekVPI)
	TDP3500	3.5 GHz differential active FET probe (±2V) (TekVPI)
	TDP4000	4 GHz differential active FET probe (±2V) (TekVPI)
	Tri-mode Probes	
	TDP7704, TDP7706, TDP7708, TDP7710	4, 6, 8 GHz TriMode™ with TekFlex™ connector technology
	Optically Isolated High Voltage Differential Probes	
	TIVH02, TIVH02L	IsoVu™ 200 MHz high voltage probe with 3m or 10m cable
	TIVH05, TIVH05L	IsoVu™ 500 MHz high voltage probe with 3m or 10m cable
	TIVH08, TIVH08L	IsoVu™ 800 MHz high voltage probe with 3m or 10m cable
	TIVM1, TIVM1L	IsoVu™ 1 GHz medium voltage probe with 3m or 10 cable
	Power Rail Probes	
	TPR1000	1 GHz, single-ended power rail probe with TPR4KIT (TekVPI)
TPR4000	4 GHz, single-ended power rail probe with TPR4KIT (TekVPI)	
Micro Volt Probes		
ADA400A	100x, 10x, 1x, 0.1x high gain differential amplifier	
Current Probes	AC Only	
	P6021	120 Hz to 60 MHz, 15A
	P6022	935 Hz to 120 MHz, 6A
	A621	5 Hz to 50 kHz, 100mA to 2000A
	CT1	25 kHz to 1 GHz, 450mA (closed core)
	CT2	1.2 kHz to 200 MHz, 2.5A (closed core)
	AC/DC	
	TCP0030A	DC to 120 MHz, 30A (TekVPI)
	TCP0020	DC to 50 MHz, 20 A (TekVPI)
	TCP0150	DC to 20 MHz, 150A (TekVPI)
Adapters	TPA-BNC	TekVPI to BNC probe adaptor to convert Level II TekProbe interface to VPI interface
	103-0503-xx	BNC to SMA adapter
Digital Probe	TLP058	8 channel general purpose logic probe for 5 & 6 Series oscilloscopes. Includes accessory kit.

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