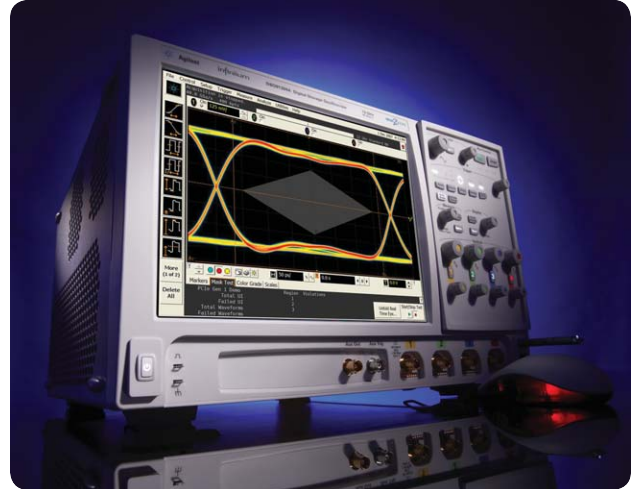


Why choose Agilent oscilloscopes for your toughest high-speed measurement challenges?

As an engineer you're no stranger to tough challenges that help you exceed your customer's needs and expectations. Deploying your next design successfully is even more difficult with today's high speed technologies. Data signal eye openings become smaller and measurement error from your oscilloscope becomes less tolerable. Agilent is committed to providing the best measurement solutions for these critical challenges.

The Agilent Infiniium 90000 Series oscilloscopes are engineered to give you unmatched real-time measurement accuracy so you can:

1. Use your jitter budget in your design, not on your oscilloscope.
2. Pass today's demanding compliance tests more quickly.
3. Debug your toughest designs with confidence.



90000A Series Infiniium oscilloscopes

Model	Real-time bandwidth on 4 ch	Maximum sampling rate on 4 ch	Standard memory	Maximum memory	Noise floor at 50 mV/div
91304A	13 GHz	40 GSa/s on 4 ch	20 Mpts on 4 ch	1 Gpts on 4 ch	1.73 mVrms
91204A	12 GHz	40 GSa/s on 4 ch	20 Mpts on 4 ch	1 Gpts on 4 ch	1.45 mVrms
90804A	8 GHz	40 GSa/s on 4 ch	20 Mpts on 4 ch	1 Gpts on 4 ch	1.15 mVrms
90604A	6 GHz	20 GSa/s on 4 ch*	20 Mpts on 4 ch	1 Gpts on 4 ch	0.98 mVrms
90404A	4 GHz	20 GSa/s on 4 ch*	20 Mpts on 4 ch	1 Gpts on 4 ch	0.79 mVrms
90254A	2.5 GHz	20 GSa/s on 4 ch*	20 Mpts on 4 ch	1 Gpts on 4 ch	0.64 mVrms

*DSA model numbers come standard with 50 Mpts of memory on 4 ch.

How much time span can I capture?

Sampling Rate	20 Mpts of memory	50 Mpts of memory	100 Mpts of memory	200 Mpts of memory	500 Mpts of memory	1 Gpts of memory
40 GSa/s	500 μ s	1.25 ms	2.5 ms	5.0 ms	12.5 ms	25.0 ms
20 GSa/s	1 ms	2.5 ms	5.0 ms	10.0 ms	25.0 ms	50.0 ms

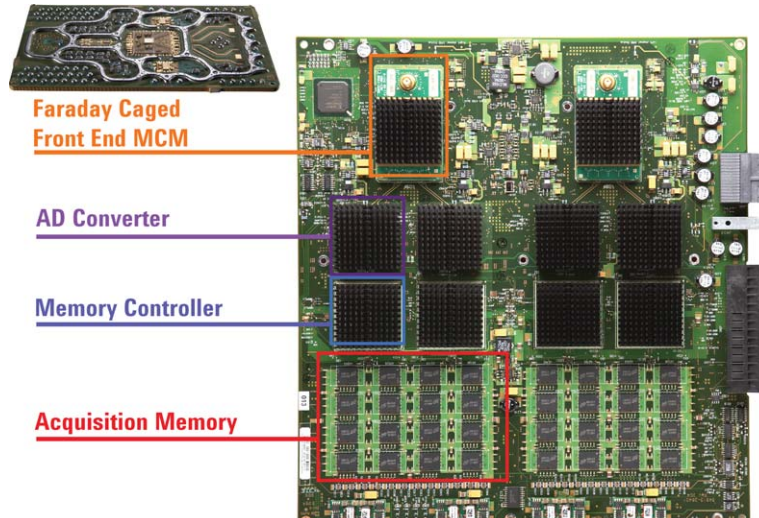
Note: time span capture = memory depth x 1/ sampling rate



Engineered for unmatched real-time measurement accuracy.

Use your jitter budget in your design, not on your oscilloscope.

Agilent's Infiniium 90000 Series oscilloscopes offer the industry's lowest noise floor and most accurate real-time jitter measurements available on scopes of this bandwidth class. Complete with full-bandwidth probing solutions and hardware-accelerated de-embedding and equalization techniques, Agilent oscilloscopes are the best oscilloscope solution for today's demanding high-speed measurements.



The industry's lowest noise floor

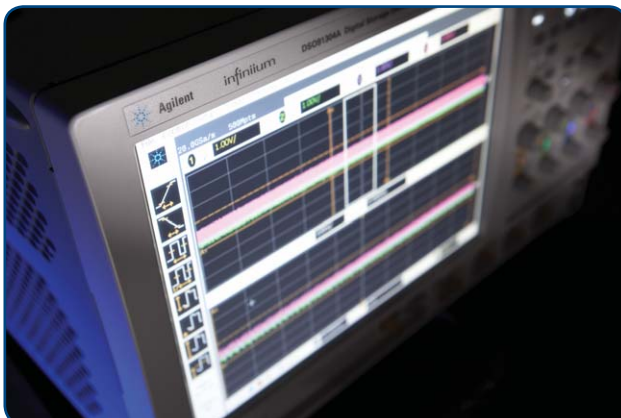
Leveraging the company expertise in RF design, Agilent has invested in key technology blocks like our proprietary Faraday caged front end to significantly reduce our inherent scope noise floor. The result: the lowest noise floor available on any real-time oscilloscope from 2.5 GHz to 12 GHz.

The industry's deepest memory

With 1 Gbyte of memory, low-frequency jitter components can be more quickly resolved in a single measurement. Statistical accuracy is improved with more data collection. Agilent's integrated deep memory remains responsive and allows more comprehensive testing, supporting pattern lengths up to PRBS23 for accurate transmitter and receiver results.

We add full bandwidth probing and accurate de-embedding and equalization software

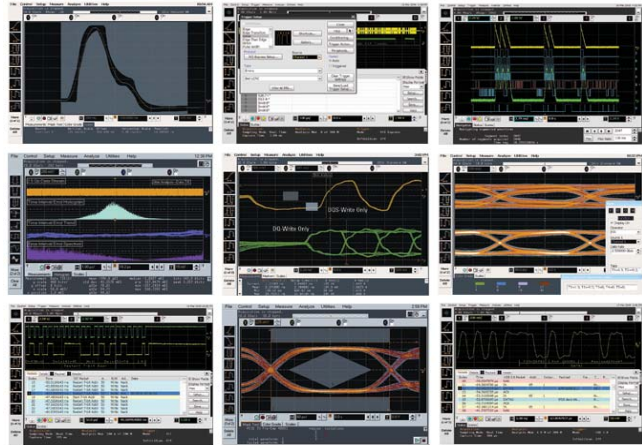
The performance of Agilent's oscilloscopes is matched by the superiority of our probing, de-embedding and equalization offerings. Maintain full bandwidth performance to the probe tip with our InfiniiMax probing solutions. Render waveforms anywhere in the digital serial link with our hardware accelerated N5465A InfiniiSim Waveform Transformation Toolset. Configurable system modeling allows you to remove the deleterious effects of unwanted channel elements, simulate waveforms with channel models inserted, view waveforms in physically unprobeable locations, and compensate for loading of probes and fixtures. The N5461A Serial Data Equalization software allows you to model equalization techniques in real time.



Engineered for unmatched real-time measurement accuracy.

Pass today's demanding compliance tests more quickly.

Offering the industry's widest range of available compliance applications to provide fast setup for complete, automated compliance and margin testing and reporting, the Agilent 90000 Series scopes have become the go-to tool for test houses worldwide. Our experts serve on the industry standards committees, and our oscilloscopes are certified on today's high speed serial data standards. Plus our 1G memory supports real-time testing to pattern lengths of PRBS23 to stress your design to the max.



Choose from a wide range of complete compliance applications

Choose from the industry's widest range of complete applications for the Infiniium 90000 Series to ensure compliance to the leading industry standards, including SATA, PCI Express®, Ethernet, USB, and more. Comprehensive set-up wizards and full automation of the required testing take the guesswork out of demonstrating compliance quickly. Get further insight with our protocol and analysis decode available on PCI Express, SATA and USB.

Put Agilent's experts on your team

Agilent's measurement experts sit on the industry standards committees and help define the compliance requirements. They make sure our tools deliver exactly to the standards. You get the benefit of years of training and experience on every measurement you make.

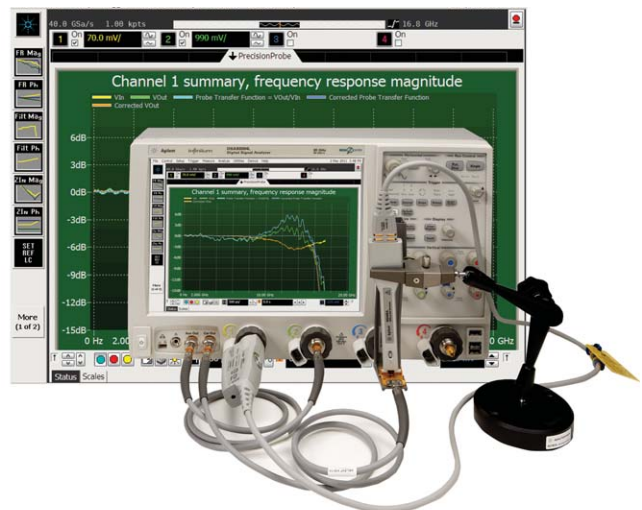
Free up valuable engineering resources

Set-up wizards combined with intelligent test filtering make it simple to ensure the right tests are being run. Comprehensive HTML reports with visual documentation and pass/fail results guarantee that critical information is retained on each test. Technicians can run complete and accurate testing on their own, freeing valuable engineering resources.

PrecisionProbe

Agilent's N2809A PrecisionProbe software quickly characterizes and compensates the frequency response of any path to the 90000 Series input. PrecisionProbe's patented technology uses the < 15ps edge from the 90000 Series oscilloscope to:

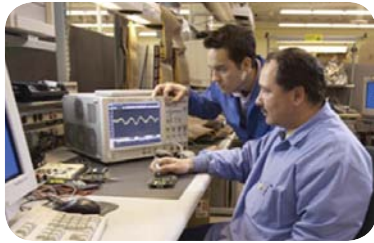
- Measure input impedance and response of any probe and the loss of any cable
- Quickly correct from probe and cable loss (without extra instruments such as VNA or TDR)
- Correct probing issues such as phase nonlinearity, magnitude non-flatness, and see the effect of probe loading
- Quickly gain insight into impedance/capacitance that defines your connection



PrecisionProbe uses Agilent's proprietary 200 GHz indium phosphide process to create a fast edge for characterization with PrecisionProbe.

Engineered for unmatched real-time measurement accuracy.

Debug your toughest designs with confidence.

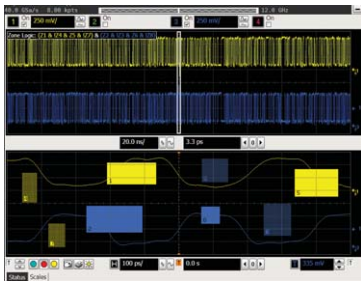


The 90000 series boasts an ever-expanding set of measurement applications for serial debugging and protocol viewing, jitter testing, advanced triggering, measurement customization, and rapid automation. Put the power of the scope to work for your unique debug and analysis challenges.



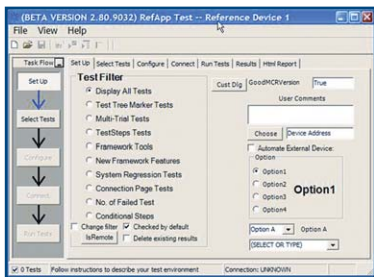
Streamline your debug and analysis tasks with the industry's widest range of application software

Whether you need to trigger and decode serial buses, iron out the kinks in your memory designs, or see FFT based spectrum analysis of your signal, the Infiniium 90000 Series has application software to help. Our serial protocol views are unique to oscilloscopes, and our DDR debug tools support multiple generations of the standard. Quickly access additional features from the scope's standard menus.



Customize your scope for even more efficiency

The N5414B InfiniiScan Event Identification software makes unique capabilities like Zone Qualify and Generic Serial triggering possible. Rapidly automate any scope measurement using the N5467A User Defined Application and have it appear seamlessly in your scope's menu. Customize your Infiniium further by taking full advantage of MyInfiniium (standard on all 90000A Series oscilloscopes). Use MyInfiniium to deliver automated measurements, execute customized scripts, save screenshots, or load your favorite setup.

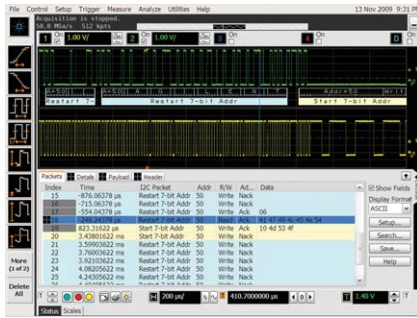


Add measurement capability with MATLAB compatibility

If we haven't provided exactly what you need, take customization to a new level with MATLAB (Option 062) - a data analysis software environment and scripting language with over 1,000,000 users today. Use MATLAB to design and apply your own filters to oscilloscope signals, graphically visualize oscilloscope signals in 2-D and 3-D plots, automate measurements, and build test applications. Add the N5430A User Defined Function software to your scope to seamlessly integrate your custom functionality into the Infiniium 90000 menus so results are displayed on the scope screen. Agilent is the only T&M manufacturer today that sells and supports MATLAB as its own product as part of a complete T&M solution.

Engineered for unmatched real-time measurement accuracy.

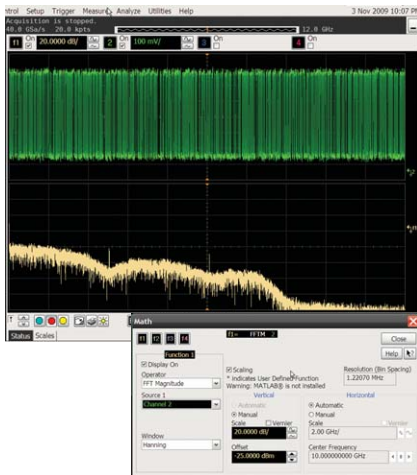
Debug your toughest designs with confidence.



Trigger and view on-screen serial decode of I2C packets

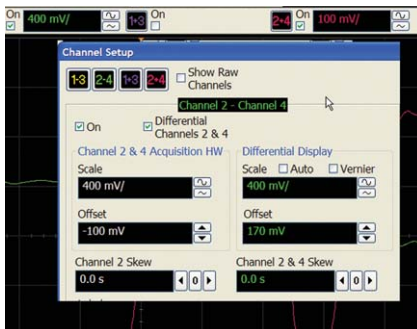
I2C/SPI serial trigger and decode (N5391A or Option 007 on new scope purchases)

Given even further insights with protocol decode capability. Quickly move between physical and protocol layer information using the time-correlated tracking marker. Display protocol content using waveform symbols and the industry's first multi-tab protocol viewer. The packets tab shows a high level view of the packet over time.



Frequency Domain Analysis

Infiniium's built-in FFT allows users to quickly and easily analyze the frequency components of their signals. Both FFT magnitude and phase can be displayed and can be combined with other built-in math functions or Matlab based measurements. A resolution bandwidth of 6 kHz is supported with the standard 10 Megabytes of acquisition memory at the maximum sample rate of 40 GSa/s. With optional acquisition memory installed resolution bandwidths of 2 kHz can be obtained. Standard windowing of Hanning, Flattop and Rectangular are supported along with cursor based power measurements. When more powerful frequency domain measurements are required including modulation analysis, consider the Agilent 89601A Vector Signal Analyzer software.



Hardware Accelerated Differential and Common Mode Math

Select the channel menu and enable differential mode to enable hardware accelerated math capability. Enjoy full channel functionality including InfiniiScan triggering and jitter analysis. Save time, by using the hardware acceleration for even faster update rates with your differential and common mode math needs.

Debug your toughest designs with confidence



Conduct jitter analysis.

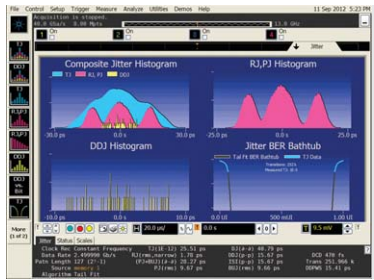
EZJIT analysis software (E2681A or option 002 on new scope purchases)

Quickly characterize and evaluate most commonly needed jitter measurements, including cycle-cycle, N-cycle, period, time-interval, error, setup and hold time, histograms, measurement trending and jitter spectrum.

Includes advanced clock recovery options such as constant frequency and PLL. Make measurements on repetitive or arbitrary data.

This application is supported on all models and is standard on DSA models.

For more information: www.agilent.com/find/EZJIT



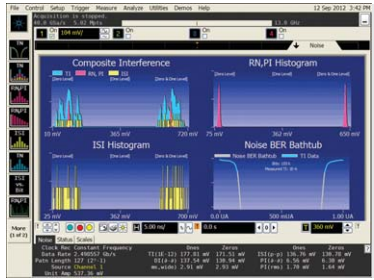
Analyze jitter plus RJ/DJ separation.

EZJIT Plus analysis software (N5400A or Option 004 on new scope purchases. To upgrade from EZJIT to EZJIT Plus, order N5401A.)

EZJIT Plus adds additional compliance views and an expanded measurement setup wizard to simplify and automate RJ/DJ separation for testing against industry standards.

This application is supported on all models and is standard on DSA models.

For more information: www.agilent.com/find/EZJITPlus



EZJIT Complete.

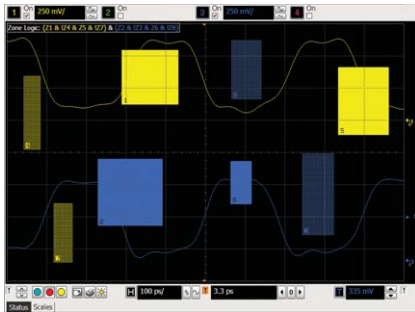
EZJIT Complete analysis software (N8823A or Option 070 on new scope purchases. To upgrade from EZJIT Plus to EZJIT Complete, order N8813A)

EZJIT Complete includes all of the advanced jitter analysis capabilities of EZJIT and EZJIT Plus, and adds advanced analysis of the vertical noise affecting the ones and zeros of your real-time eye. Decomposition of vertical noise provides key insight into degradation of your eye height. In providing advanced decomposition of both horizontal jitter and vertical noise components of your signals, EZJIT Complete represents the most comprehensive analysis software available.

This application is supported on all models and is a standard on DSA models.

For more information: www.agilent.com/find/EZJITComplete

Debug your toughest designs with confidence



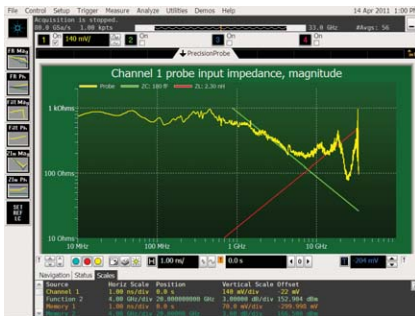
Identify signal integrity issues with InfiniiScan Zone – Qualify triggering.

InfiniiScan event identification (N5414B or Option 009 on new scope purchases)

Rapidly trigger on complex events and identify signal integrity issues. This innovative software quickly scans through thousands of acquired waveform cycles and isolates anomalous signal behavior.

This application is supported on all models.

For more information: www.agilent.com/find/infiniiScan



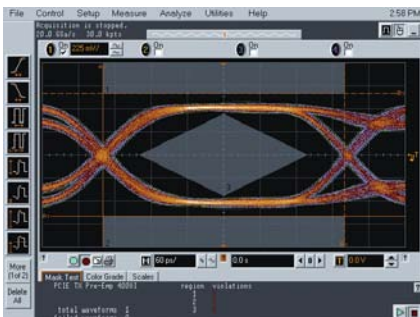
Quickly characterize and correct for any input to your oscilloscope.

PrecisionProbe software (N2809A or Option 001 on new scope purchases)

Make more accurate measurements independent of what probes or cables used.

Agilent's N2809A PrecisionProbe software characterizes and corrects for the loss in your specific cable or probe. PrecisionProbe removes the uncertainty about the input connected to your oscilloscope by allowing you to see its characteristics in less than five minute. PrecisionProbe gives you design and debug confidence by allowing you to quickly de-embed probe and cable loss to make more accurate measurements.

For more information: www.agilent.com/find/PrecisionProbe



Recover embedded clocks with serial data analysis (SDA).

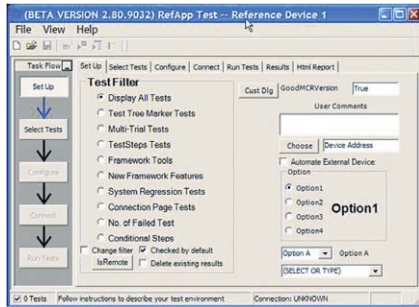
High-speed serial data analysis software (E2688A or Option 003 on new scope purchases)

Quickly validate signal integrity for high-speed serial interfaces with embedded clocks. Recover embedded clocks synchronized with the analog waveform view. Build and validate eye diagrams.

The SDA package also includes software-based bit-level triggering and decode for 8B/10B. This application is supported on all models and comes standard on DSA models.

For more information: www.agilent.com/find/SDA

Debug your toughest designs with confidence



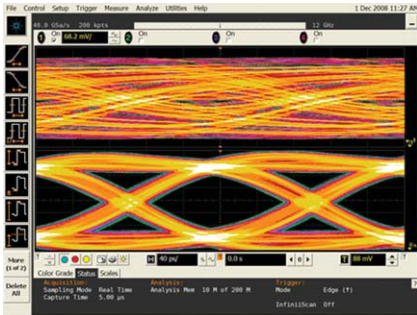
Infiniium Remote Programming interface (N5452A or Option 011 on new scope purchases)

Operate your Infiniium compliance and validation applications remotely using .NET languages.

This application is supported on all models.

For more information: www.agilent.com/find/RPI

Control your applications remotely.



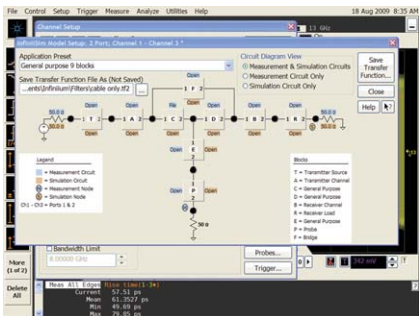
Serial Data Equalization (N5461A or Option 012 on new scope purchases)

Measure at the pin and use equalization to see a virtual eye on the other side of an equalizer. Model equalization techniques such as DFE, FFE, and CTLE.

This application is supported on all models.

For more information: www.agilent.com/find/SDE

Reduce receiver errors by opening tightly shut eyes.



InfiniiSim Waveform Transformation and De-embedding Toolset (Basic: N5465A-001 or option 13 on new scope purchases. Advanced: N5465A-002 or Option 14 on new scope purchases.)

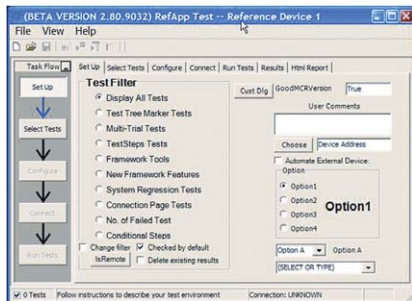
The N5465A InfiniiSim waveform transformation toolset for Infiniium Series oscilloscopes provides the most flexible and accurate means to render waveforms anywhere in the digital serial link. The configurable system modeling allows you to remove the deleterious effects of unwanted channel elements, simulate waveforms with channels models inserted, view waveforms in physically un-probable locations, compensate for loading of probes and other circuit elements, and do so simply and quickly on the real-time oscilloscope.

This application is supported on all models.

For more information: www.agilent.com/find/InfiniiSim

Model channel effects including reflection.

Debug your toughest designs with confidence

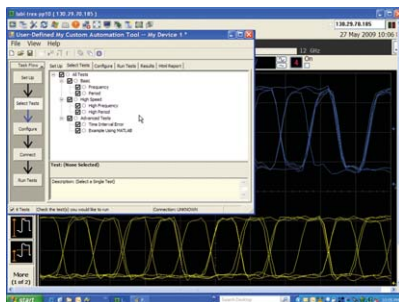


Control your applications remotely.

MATLAB® data analysis software (Option 061 or 062 on new scope purchases)

MATLAB is a data analysis software environment and scripting language used by over 1,000,000 users in aerospace/defense, automotive, communications, electronics, and other applications. MATLAB is now available directly from Agilent as in instrument option with the purchase of your Agilent 90000 Series oscilloscope. Install MATLAB on your oscilloscope or remote PC to make customized measurements, design and apply your own filters to oscilloscope signals, graphically visualize signals in 2-D or 3-D plots, automate measurements, or build test applications. Purchase MATLAB with your Agilent 90000 Series oscilloscope to ensure version compatibility and so that your MATLAB software license is always available when you need it.

For more information: www.agilent.com/find/matlab_oscilloscopes

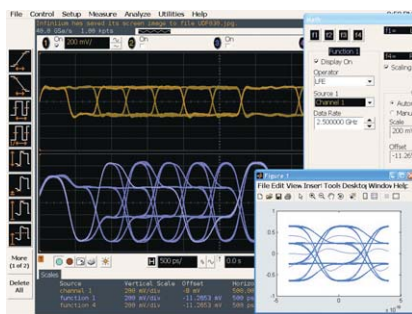


Quickly automate oscilloscope measurements.

User-definable application (N5467A or Option 040 on new scope purchases)

Rapidly develop your own automated measurements and tests. This application provides the framework you need to quickly program and automate any single or set of measurements the oscilloscope can make. The application also provides full control of other Agilent instruments and HTML reporting capabilities.

For more information: www.agilent.com/find/UDA



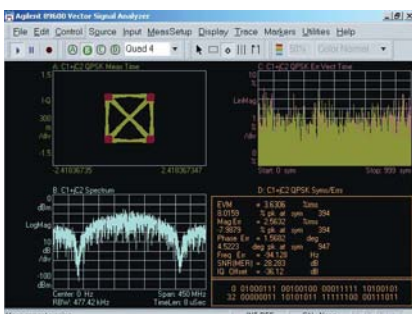
Signal equalization using user-defined function.

User-defined function (N5430A or Option 010 on new scope purchases)

If we haven't provided exactly what you need, use the N5430A User Defined Function software to create it yourself. Develop your own math functions or filters using MATLAB. Your custom functionality is seamlessly integrated into the Infiniium 90000 menus and results are displayed on the scope screen. This requires MATLAB (available as Option 062) to be installed directly on the oscilloscope. Agilent is the only T&M manufacturer today that sells and supports MATLAB as its own product.

This application is supported on all models and requires MATLAB software (not included with UDF).

For more information: www.agilent.com/find/UDF



Use vector signal analysis software to see FFT-based spectrum analysis.

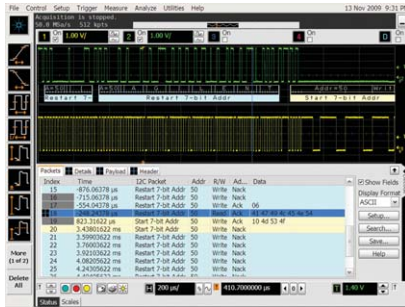
Vector signal analysis software (89601A)

Expand the measurement capability of your scope with the 89601A vector signal analysis software. This advanced DSP-based software takes the digitized signal data from the scope and displays FFT-based spectrum analysis and wide-bandwidth digital modulation analysis for wireless communication signals such as WCDMA and cdma2000 and wireless networking signals such as 802.11 WiFi and 802.16 WiMax.

Take advantage of the super-wide bandwidth of your scope to capture and evaluate radar signals.

For more information: www.agilent.com/find/VSA

Debug your toughest designs with confidence



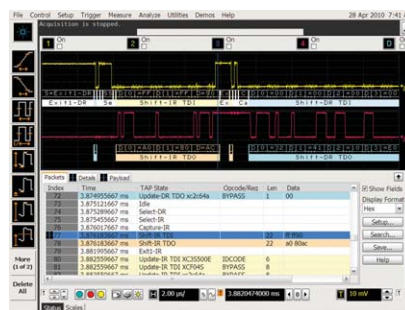
Trigger and view on-screen serial decode of I2C packets.

I2C/SPI serial trigger and decode (N5391A or Option 007 on new scope purchases)

This application displays real-time time-aligned decode of I2C and SPI packets. View decode in waveform area or in protocol lister.

This application works on all models.

For more information: www.agilent.com/find/90000_I2C-SPI



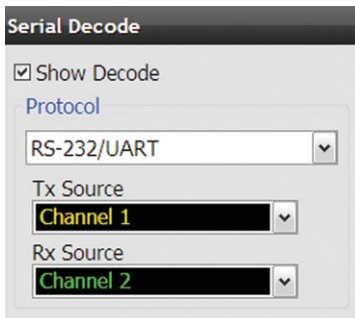
Trigger on and decode JTAG packets.

JTAG (IEEE 1149.1) triggering and decode (N8817A or Option 042 on new scope purchases)

This application displays real-time time-aligned decode of JTAG (IEEE 1149.1) TDI and TDO signals. The application eliminates the difficult task of manually determining JTAG TAP controller states, instruction and data register decode, and flags error conditions. The application includes scan chain description features including the ability to import .bsd files for each device and displays device names and opcodes in the protocol listing.

This application works on all models and can use any combination of scope or logic acquisition channels.

For more information: www.agilent.com/find/90000_JTAG



Trigger on and decode RS-232/UART transmission.

RS-232/UART serial decode and trigger (N5462A or Option 015 on new scope purchases)

This application eliminates the need to manually decode bus traffic. Using data captured on the scope channels, the application lets you easily view the information sent over an RS-232.

Display real-time time-aligned decode of transmit and receive lines.

This application works on all models.

For more information: www.agilent.com/find/90000_RS-232



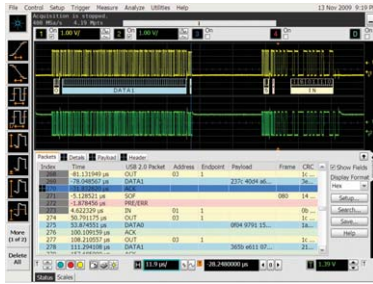
Isolate signal integrity problems from logic-level coding errors on bidirectional serial data streams.

N8805A USB 3.0 Protocol Triggering and Decode (N8805A)

Trigger on and view USB 3.0 with the industry's first oscilloscope-based protocol analyzer with time-correlated views of physical layer and transaction layer errors. The multi-tab protocol viewer includes correlation between the waveforms and the selected packet, enabling you to quickly move between the physical and protocol layer using the time-correlated tracking marker.

For more information: www.agilent.com/find/usb3decode

Pass today's demanding compliance tests more quickly



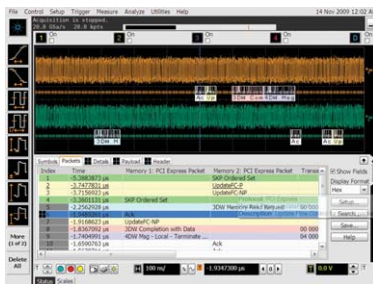
Trigger on and decode USB packets.

USB serial trigger and protocol viewer (N5464A or Option 016 on new scope purchases)

Trigger on and quickly view USB 2.0 packets, payload, header and detail information. Powerful time-correlated views of waveform and symbol, to the bit level, make it easy to isolate communication faults.

This application is supported on all models.

For more information: www.agilent.com/find/90000_USB_protocol_viewer



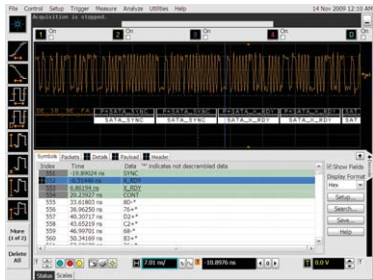
Trigger on and decode PCIe serial packets.

PCI Express® serial trigger and protocol viewer (N5463A or Option 017 on new scope purchases)

This application provides protocol-level triggering and viewing of a PCIe® lane. Quickly view packets, payload, header, and detail information. Powerful time-correlated views of waveform, symbol, character, link and transaction layer packet data down to the bit level make it easy to isolate communication faults to logic or analog sources.

This application is supported on all 4 GHz and greater models.

For more information: www.agilent.com/find/90000_PCI_protocol_viewer



Trigger on and decode SAS/SATA serial packets.

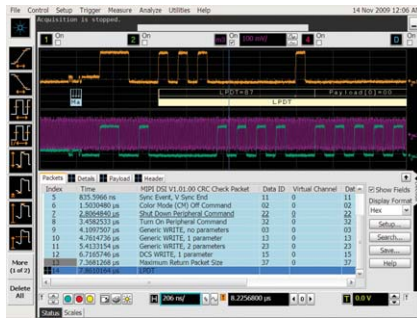
SATA triggering and decode (N8801A or option 018 on new scope purchases)

Trigger on and view both protocol layer information and physical layer signal characteristics for SATA 1.5 Gb/s, 3.0 Gb/s, and 6.0 Gb/s. Numerical decode values are automatically displayed and synchronizes below the capture signal or seen in protocol viewer.

This application works on all models.

For more information: www.agilent.com/find/N8801A

Pass today's demanding compliance tests more quickly



Trigger on and decode MIPI packets.

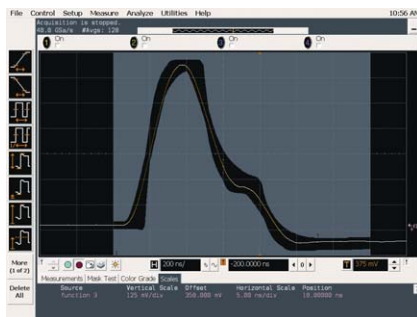
MIPI D-phy trigger and decode (N8802A or Option 019 on new scope purchases)

This application eliminates the need to manually decode bus traffic. Using data captured on the scope, the application lets you easily view the information sent over MIPI serial buses.

The application also enables software based protocol triggering.

This application is supported on all models ≥ 4 GHz bandwidth.

For more information: www.agilent.com/find/N8802A



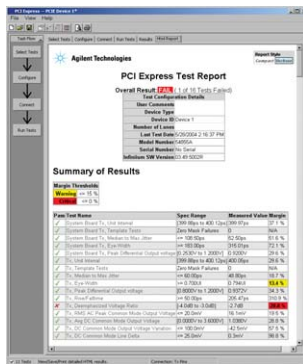
Validate Ethernet compliance.

Ethernet compliance testing (N5392A or Option 021 on new scope purchases)

Perform a wide range of electrical tests for 10-, 100-, and 1000-Base-T systems. An N5395B or N5395C test fixture and N5396A jitter test cable speed compliance testing.

This application is supported on all models.

For more information: www.agilent.com/find/N5392A



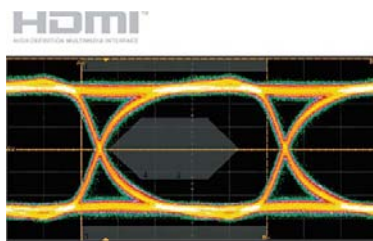
Quickly verify and debug your PCI EXPRESS® designs.

PCI EXPRESS® Electrical Performance Validation and Compliance Software (N5393B or Option 022 on new scope purchases)

Provides fast and easy way to verify and debug your PCI EXPRESS designs. Allows you to automatically execute PCI EXPRESS electrical checklist tests, and displays the results in a flexible report format. Ensures that your Gen2 measurements will have absolute consistency with measurements made using the PCI-SIG's standalone Sigtest software.

This application is supported on all models ≥ 8 GHz bandwidth.

For more information: www.agilent.com/find/N5293B



Verify and debug your HDMI designs.

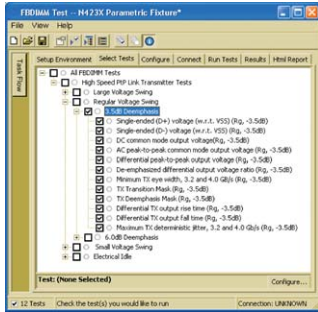
HDMI™ Electrical Performance Validation and Compliance Software (N5399A or Option 023 on new scope purchases)

Quickly verify and debug your High Definition Multi-media Interface (HDMI) designs. The N1080A fixture provides access to the compliance points for the electrical measurements required for the transmitter compliance testing.

This application is support on all models ≥ 8 GHz bandwidth.

For more information: www.agilent.com/find/N5399A

Pass today's demanding compliance tests more quickly



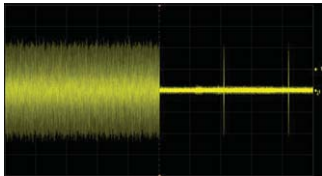
Characterize and evaluate the signal integrity of both your high speed FB-DIMM signals as well as your reference clock.

Fully Buffered DIMM Compliance Application (N5409A or Option 024 on new scope purchases)

Quickly characterize and evaluate the signal integrity of both your high speed FB-DIMM signals as well as your reference clock. All tests are based on the JEDEC High Speed Point-to-Point Link Specification.

This application is supported on all models ≥ 10 GHz bandwidth.

For more information: www.agilent.com/find/N5409A



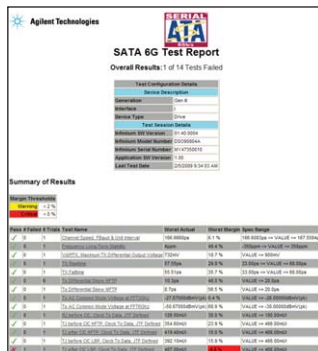
Characterize and evaluate the signal integrity of your Energy Efficient Ethernet devices.

Energy Efficient Ethernet Application (N5392B or Option 060 on new scope purchases)

Industry leading compliance application that measures 10/100/1000BTe Energy Efficient Ethernet IEEE 802.3az-2010 specification. Exclusive EEE fixture allows you to measure all test modes at all speeds. Detailed reporting with clear measurements and pass/fail results.

This application is supported on all models.

For more information: www.agilent.com/find/EEE



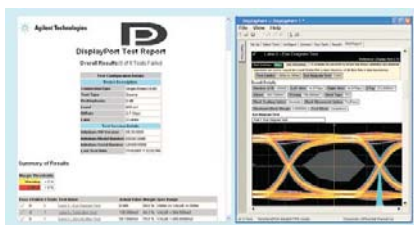
Simplify the validation of SATA designs.

SATA 6G Compliance Test Software (N5411B or Option 038 on new scope purchases)

Rapidly validate and debug your SATA 1.5Gb/s (Gen 1), 3.0 Gb/s (Gen2) and 6.0 Gb/s (Gen3) silicon, host bus adapter, port multiplier, high-density disk drive, solid-state disk drive or optical disk drive. Provides automated compliance test support for the i (internal), m(eSATA) and x(SAS attachment) interfaces points, and displays the results in a flexible report format.

This application is supported on all models ≥ 12 GHz bandwidth.

For more information: www.agilent.com/find/N5411B



Full suite of DisplayPort source tests.

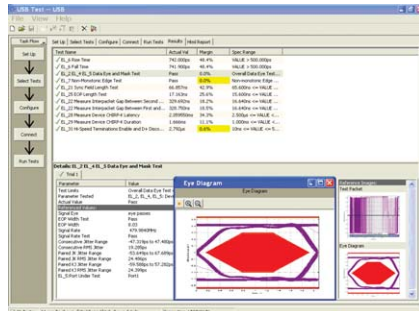
U7232B DisplayPort Compliance Test Software (U7232B or Option 045 on new scope purchases)

Sets the benchmark for ease-of-use, and offers complete testing without compromise. The software guides the user sequentially through the tasks ensuring minimal setup error, executes the tests specified by the standard and conveys the test information through a convenient software generated report. The three modes of physical layer test allow for automated measurements based on the customizable configuration of compliance and characterization testing. To make the test signal connection, the Agilent W2641B DisplayPort test point access adaptor completes the DisplayPort source solution.

The application is supported on all models ≥ 8 GHz.

For more information: www.agilent.com/find/U7232B

Pass today's demanding compliance tests more quickly



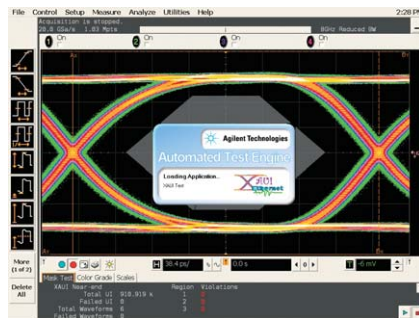
Check for USB compliance.

USB 2.0 Compliance Test Software (N5416A or Option 029 on new scope purchases)

Quickly determine USB compliance with this USB-IF recognized solution. A setup wizard guides you through test selection and configuration.

This application is supported on all models.

For more information: www.agilent.com/find/N5416A



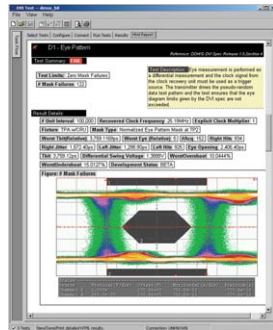
Perform automated testing and margin analysis for XAUI and XAUI-derived specifications.

XAUI Electrical Validation with 10GBASE-CX4, CPRI, OBSAI, and Serial RapidIO Support (N5431A or Option 030 on new scope purchases)

Improve your efficiency by confirming that your devices conform to the XAUI specifications as defined by the IEEE 802.3-2005 10-gigabit Ethernet specification. Provides support for the XAUI-derived 10GBASE-CX4 specification.

The application is supported on all models.

For more information: www.agilent.com/find/N5431A



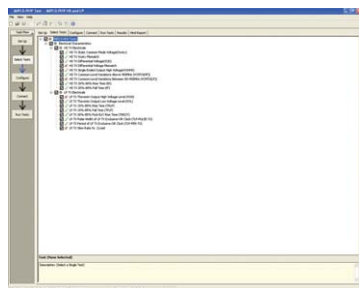
Verify and debug your DVI designs more easily.

DVI Electrical Performance Validation & Compliance Software (N5394A or Option 034 on new scope purchases)

Automatically execute DVI electrical checklist tests and display the results in a flexible report format. In addition to the measurement data, the report provides a margin analysis that shows how closely your device passed or failed each test.

The application is supported on all models \geq 4GHz.

For more information: www.agilent.com/find/90000



Automatically execute D-PHY electrical checklist tests for CSI and DSI architectures.

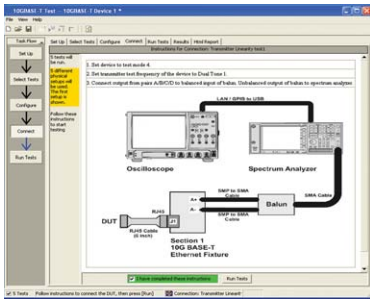
MIPI D-PHY Compliance Test Software (U7238A or Option 035 on new scope purchases)

Automatically execute D-PHY electrical checklist tests for CSI and DSI architectures. Displays the results in a flexible report format.

The application is supported on all models.

For more information: www.agilent.com/find/d-phy_compliance

Pass today's demanding compliance tests more quickly



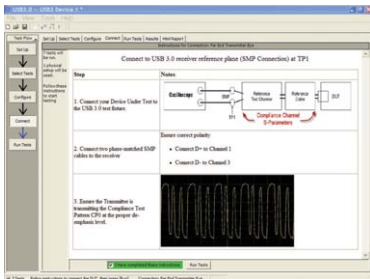
Automatically execute 10GBASE-T Ethernet physical-layer (PHY) electrical tests

10GBASE-T Ethernet Electrical Conformance Application for Infiniium Oscilloscopes (U7236A or Option 036 on new scope purchases)

Takes care of the tedious task of instrument control and configures the oscilloscope, spectrum analyzer, or vector network analyzer as needed by each 10GBASE-T test to provide rapid, accurate, and repeatable test execution.

The application is supported on all models.

For more information: www.agilent.com/find/10gbase-t



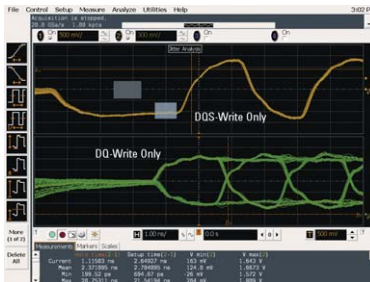
Validate and debug your USB 3.0 silicon, host, hub or device

USB 3.0 Compliance Test Software (U7243A or Option 041 on new scope purchases)

Provides industry leading automated test support for USB 3.0 products and displays the test results in a comprehensive test report. For best measurement accuracy use the Agilent U7242A USB 3.0 transmitter and receiver test fixtures. Agilent's USB 3.0 test solution is designed from the ground up with the needs of the test engineer in mind.

The application is supported on models \geq 12 GHz

For more information: www.agilent.com/find/USB3



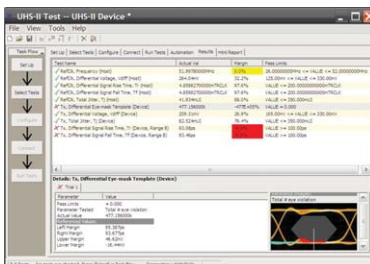
Test DDR memory.

DDR1 and LPDDR/DDR2, LPDDR2/DDR3, DDR4 and GDDR5 compliance testing (U7233A/N5413B/U7231B/N6462A/U7245A or Options 031/032/033/058 on new scope purchases)

Quickly and easily evaluate and characterize your memory designs. Automated testing based on JEDEC specifications saves time. The application also includes additional debug and compliance capabilities.

This application is supported on all models. However, the DDR technology you are using may dictate the minimal bandwidth required for your scope.

For more information: www.agilent.com/find/DDR



Comprehensive analysis that automates the complex measurements even when you are not there.

SD UHS-I and SD UHS-II Card Compliance Testing (U7246A/N6461A)

The SD card compliance test software gives you a fast, easy way to test, debug and characterize your SD designs up to 1.5 Gb/s in accordance with the SD Specification.

The U7246A with 9000A and 90000A Series oscilloscopes is a certified test tool for SD Card Phy electric tests with the SD Association. Reference is available in SDA official document: SD Test Tool Information Ver1.0 Sep. 13, 2010.

For more information: www.agilent.com/find/U7246A
www.agilent.com/find/N6461A

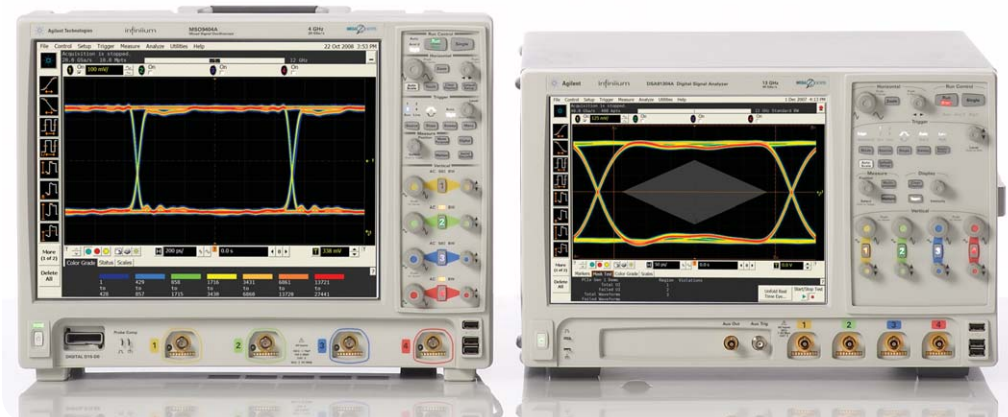
Agilent Infiniium portfolio

Agilent's Infiniium oscilloscope lineup includes bandwidths from 600 MHz to 63 GHz. Use the following selection guide to determine which best matches your specific needs. Infiniium real-time oscilloscopes feature the following:

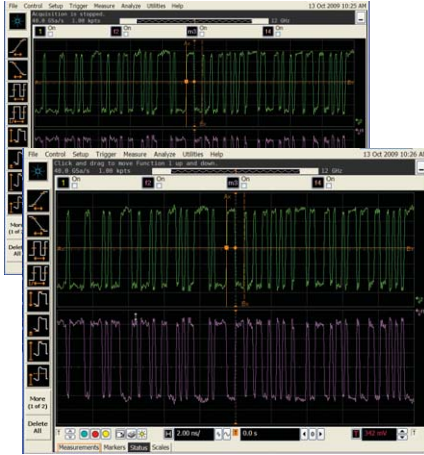
- World's highest bandwidth on 4 channels in a single frame
- Industry's lowest noise floor
- Full PrecisionProbe compatibility



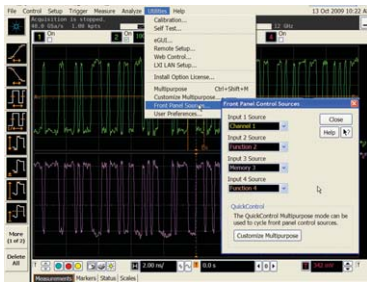
	9000 Series	90000A Series	90000 X-Series	90000 Q-Series
Available bandwidths	Up to 4 GHz	600 MHz, 1 GHz, 2.5 GHz, 4 GHz	2.5 GHz, 4 GHz	
	6 to 16 GHz		6 GHz, 8 GHz, 12 GHz, 13 GHz	13 GHz, 16 GHz
	20 to 63 GHz			20 GHz, 25 GHz, 33 GHz, 20 GHz, 25 GHz, 33 GHz, 50 GHz, 63 GHz
Max upgradable bandwidth	4 GHz	13 GHz	33 GHz	63 GHz
Sample rate (2-channel/4-channel)	10/20 GSa/s	40/40 GSa/s	80/40 GSa/s	160/80 GSa/s
Channel inputs and connector types	50Ω and 1 MΩ, BNCs	50 Ω, BNCs	50 Ω, 2.92 and 3.5 mm SMAs	50 Ω, 1.85 mm, 2.4 mm, 2.92 and 3.5 mm, SMAs
Memory depth (standard/max)	20 M/1 Gpts	20 M/2 Gpts	20 M/2Gpts	20 M/2 Gpts
MSO models	Yes	No	No	No
Supported InfiniiMax probe families	InfiniiMax 2	InfiniiMax 2	InfiniiMax 3 InfiniiMax 2 with adapter	InfiniiMax 3 InfiniiMax 2 with adapter



Infiniium 9000A Series

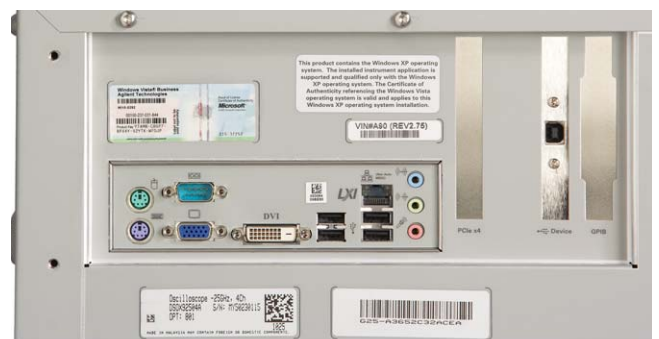


Click on the icon at the bottom left of the Infiniium screen to minimize the status and scales tab for full screen viewing. Maximize your viewing needs.

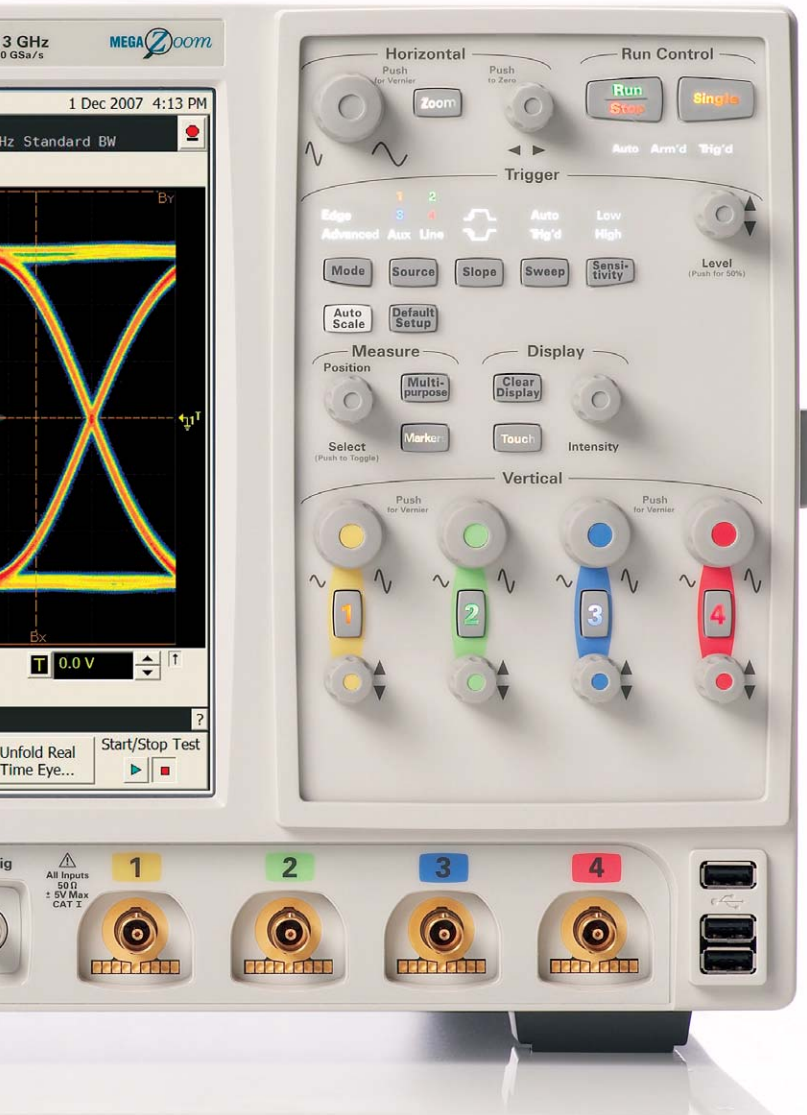


Ever wanted to change the scale or offset of a function or waveform memory? If you have, you know that it requires multiple menus and key strokes. In Infiniium software version 2.01 and later, you can now map functions and waveform memories to the front panel controls of the oscilloscope!

Starting with an **18-GHz, BNC-compatible connector**, an **ultra-low noise floor** front end design using **Faraday cage** technology ensures high signal integrity in its signal path.



AutoProbe interface completely configures your scope for use with the InfiniiMax probing system and previous-generation Agilent active probes.



Simply press the **horizontal delay knob** to set the delay value to zero. A **zoom button** provides quick access to two screen zoom mode.

Dedicated **single acquisition button** provide better control to capture an unique event.

Customizable **Multipurpose key** gives you any five automated measurements with a push of a button. You can also configure this key to execute a script, print/save screen shots, save waveforms, or load a favorite setup.

Measure section including a **toggle marker button** and a **dedicated marker knob** provides quick access to your marker control.

Quick access to fine/vernier control by pressing the horizontal and vertical sensitivity knobs.

Increase your productivity with a familiar Infiniium graphical user interface, like your favorite drag-and-drop measurement icons. Infiniium's analog-like front panel has a full set of controls color coded to the waveforms and measurements, making your tasks simple.

Optional USB external DVD-RW drive allows you to install your favorite third-party software conveniently and can be used to back up your critical measurement data.

Install third-party software packages on **Windows XP Pro** operating system such as Excel, LabVIEW, Agilent VEE, MATLAB®, anti-virus software, and more, to perform customized processing and automation of your oscilloscope or to make the scope compliant to the network environment of your company.

InfiniiMax II: The World's best high-speed probing system just keeps getting better

InfiniiMax offers you the highest performance available for measuring differential and single-ended signals, with flexible connectivity solutions for today's high-density ICs and circuit boards.

InfiniiMax probes have fully characterized performance for all of their various probe heads. This includes:

- Swept frequency response plot
- Common mode rejection versus frequency plot
- Impedance versus frequency plot
- Time-domain probe loading plot
- Time-domain probe tracking plot

One-year standard warranty on active probes and a variety of Agilent support options to choose from.

Controlled impedance transmission lines in every probe head deliver full performance versus the performance limitations introduced by traditional wire accessories.

Probe interface software allows you to save the calibration information for up to 10 different probe heads per channel and will automatically retrieve calibration data for a probe amplifier when attached to the scope.

High-input impedance active probes minimize loading, support differential measurements and DC offset, and can compensate for cable loss.

Probe calibration software delivers the most accurate probe measurements and linear phase response and allows various probe combinations to be deskewed to the same reference time.

A flat frequency response over the entire probe bandwidth eliminates the distortion and frequency-dependent loading effects that are present in probes that have an in-band resonance.

E2677A 12-GHz solder-in differential probe head can be attached to very-small-geometry circuits for measuring both single-ended and differential signals. External mini-coaxial resistors facilitate wider span but have increased high-frequency response variation relative to N5381A.

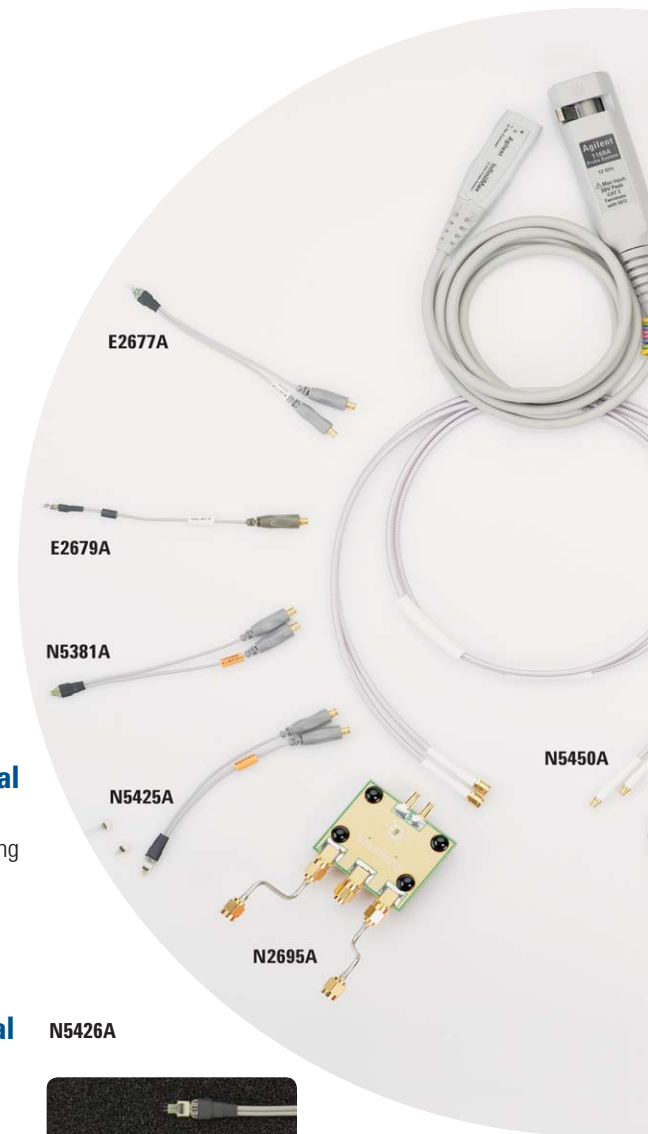
E2679A 6-GHz extremely small single-ended, solder-in probe heads for probing even the hardest-to-reach single-ended signals.

N5381A 13-GHz high-bandwidth solder-in differential probe head provides maximum bandwidth and minimizes capacitive loading to ≤ 210 fF. Variable spacing from 0.2 to 3.3 mm (8 to 130 mills).

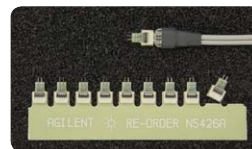
N5425A 13-GHz high-bandwidth solder-in differential ZIF probe head and N5426A ZIF tip provides maximum bandwidth with the industry's first lead-free solder-in probe solution in an economical replaceable tip form factor.

N5451A 9-GHz/5-GHz long-wire ZIF tip provides a high-bandwidth economical replaceable solder-in tip with extra reach (9 GHz with 7 mm and 5 GHz with 11 mm wire).

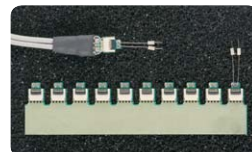
E2695A 8-GHz differential SMA probe head allows you to connect two SMA cables to make a differential measurement on a single scope channel.

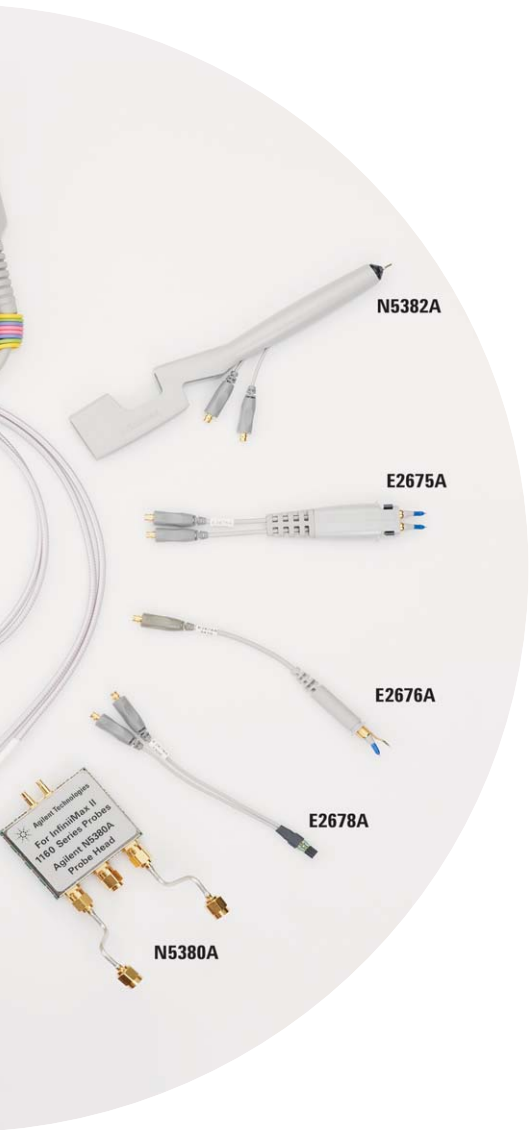


N5426A



N5451A





Six different InfiniiMax probe amplifiers from 1.5 GHz to 13 GHz are available for matching your probing solution to your performance and budget requirements. The 1168/69A InfiniiMax II amplifiers offer the highest bandwidth and the lowest noise floors. The 1134/32/31/30A offer a more cost efficient solution and wider dynamic range.

N5382A 13-GHz high-bandwidth differential browser

provides maximum bandwidth for hand-held or probe holder use. Variable spacing from 0.2 to 3.3 mm (8 to 130 mills).

E2675A 6-GHz differential browser

is the best choice for general-purpose trouble shooting of differential or single-ended signals with z-axis compliance and variable spacing from 0.25 - 5.80 mm (10 - 230 mills).

E2676A 6-GHz single-ended browser

is the best choice for general-purpose probing of single-ended signals when the small size of the probe head is the primary consideration.

E2678A 12-GHz differential socket probe head

can be used to measure either differential or single-ended signals via a plug-on socket connection.

N2880A In-line Attenuator Kit

allows you to increase the dynamic range and the offset range of the InfiniiMax probe without affecting the bandwidth.

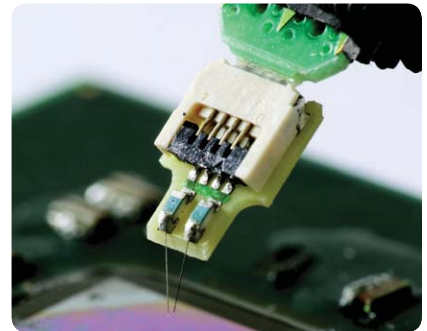


N2881A DC Blocking Capacitors

can be used to in series with the N2880A InfiniiMax in-line attenuators to block out unwanted DC components of the input signal up to 30V.

N2884A Differential Fine-wire Probing Tip

InfiniiMax differential fine-wire probing tip is a high fidelity, high bandwidth solution for probing an active IC.



N2887A InfiniiMax Soft touch Pro Probe Adapter

adapts from the Agilent Pro Series (36 ch) Soft touch connectorless logic analyzer foot print to the Agilent InfiniiMax I & II series probe amplifier input connectors



N2888A InfiniiMax Soft touch half-channel Probe Adapter

adapts from the Agilent half-channel (18 ch) Soft touch connectorless logic analyzer foot print to the Agilent InfiniiMax I & II series probe amplifier input connectors

N5380B 13-GHz high-bandwidth differential SMA

probe head provides maximum bandwidth for SMA-fixed differential pairs.

N5450B InfiniiMax extreme temperature extension cable

provides extra reach into environmental chambers.

Infiniium 9000A Series Oscilloscopes

Performance characteristics

Vertical

Input channels	Four					
Analog bandwidth (-3 dB)*, 10	90254A 2.5 GHz	90404A 4 GHz	90604A 6 GHz	90804A 8 GHz	91204A 12 GHz	91304A 12 GHz
DSP enhanced bandwidth ³	91304A: 13-GHz real-time, user-selectable DSP enhanced bandwidth					
Rise time/fall time ¹¹ 10 - 90% 20 - 80%	90254A 140 ps 105 ps	90404A 105 ps 79 ps	90604A 70 ps 53 ps	90804A 54 ps 38 ps	91204A 35 ps 25 ps	91304A 32 ps 23 ps
Input impedance ¹²	50 Ω, ± 3%					
Sensitivity ¹	1 mV/div to 1 V/div					
Input coupling	DC					
Vertical resolution ²	8 bits, ≥ 12 bits with averaging					
Channel to channel isolation (any two channels with equal V/div settings)	DC to 3 GHz: 90804A/91204A/91304A: 60 dB (≥ 1000:1) 90254A/90404A/90604A: 50 dB (≥ 316:1) 3 GHz to 8 GHz: 40 dB (≥ 100:1) 8 GHz to BW: 35 dB (≥ 56:1)					
DC gain accuracy*, 1	± 2% of full scale at full resolution channel scale (± 2.5% for 5mV/div)					
Maximum input voltage*	± 5 V					
Offset range	Vertical sensitivity 0 mV/div to ≥ 40 mV/div > 40 mV/div to ≥ 75 mV/div > 75 mV/div to ≥ 130 mV/div > 130 mV/div to ≥ 240 mV/div > 240 mV/div		Available offset ± 0.4 V ± 0.9 V ± 1.6 V ± 3.0 V ± 4.0 V			
Offset accuracy*, 1	≤ 3.5 V: ± (2% of channel offset + 1% of full scale) + 1 mV > 3.5 V: ± (2% of channel offset + 1% of full scale)					
Dynamic range	± 4 div from center screen					
DC voltage measurement accuracy*, 1	Dual cursor: ± [(DC gain accuracy) + (resolution)] Single cursor: ± [(DC gain accuracy) + (offset accuracy) + (resolution/2)]					
RMS noise floor (scope only)						
Volts/div	90254A	90404A	90604A	90804A	91204A	91304A
5 mV	153 μV	199 μV	259 μV	322 μV	435 μV	467 μV
10 mV	183 μV	232 μV	295 μV	358 μV	483 μV	536 μV
20 mV	275 μV	342 μV	424 μV	498 μV	650 μV	758 μV
50 mV	645 μV	799 μV	985 μV	1.15 mV	1.45 mV	1.73 mV
100 mV	1.27 mV	1.56 mV	1.92 mV	2.22 mV	2.80 mV	3.37 mV
200 mV	2.47 mV	3.03 mV	3.71 mV	4.28 mV	5.41 mV	6.58 mV
500 mV	6.48 mV	8.00 mV	9.91 mV	11.5 mV	14.7 mV	17.4 mV
1 V	12.5 mV	15.6 mV	19.2 mV	22.3 mV	28.5 mV	34.1 mV

* Denotes warranted specifications, all others are typical. Specifications are valid after a 30-minute warm-up period, and ±5 °C from annual calibration temperature.

1 Full scale is defined as 8 vertical divisions. Magnification is used below 5 mV/div. Below 5 mV/div, full-scale is defined as 40 mV. The major scale settings are 5 mV, 10 mV, 20 mV, 50 mV, 100 mV, 200 mV, 500 mV, 1 V.

2 Vertical resolution for 8 bits = 0.4% of full scale, for 12 bits = 0.024% of full scale.

3 13 GHz DSP enhanced bandwidth not applicable at 5 mV/div.

10 11.8 GHz analog bandwidth at 5 mV/div for DSO91304A and DSO91204A models.

11 Calculated from the bandwidth.

12 Input impedance is valid when V/div scaling is adjusted to show all waveform vertical values within the scope display.

Infiniium 9000A Series Oscilloscopes

Performance characteristics

Vertical (continued)

RMS noise floor (scope with probe) Volts/div	90254A with 1131A	90404A with 1132A	90604A with 1134A	90804A with 1168A	91204A with 1169A	91304A with 1169A
20 mV	3.2 mV	3.5 mV	4.0 mV	2.2 mV	2.5 mV	2.7 mV
50 mV	3.3 mV	3.6 mV	4.0 mV	2.3 mV	2.8 mV	3.1 mV
100 mV	3.4 mV	3.8 mV	4.3 mV	2.9 mV	3.5 mV	4.2 mV
200 mV	4.0 mV	4.6 mV	5.3 mV	4.7 mV	5.9 mV	7.5 mV
500 mV	7.1 mV	8.6 mV	10 mV	12 mV	15 mV	19 mV
1 V	13 mV	16 mV	19 mV	23 mV	28 mV	37 mV

Horizontal

Main timebase range	5 ps/div to 20 s/div real-time, 5 ps/div to 500 ns/div equivalent-time
Main timebase delay range	-200 s to 200 s real-time, -25 μs to 200 s equivalent-time
Zoom timebase range	1 ps/div to current main time scale setting
Channel deskew	± 25 μs range, 100 fs resolution
Time scale accuracy*	± (0.4 + 0.5 * YrsSinceCal) ppm pk

Delta-time measurement accuracy^{6a, 6b, 7}

Absolute, averaging disabled

$$\sqrt{\left(\frac{5.0 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 20 \times 10^{-24}} + \frac{\text{TimeScaleAccy} \cdot \text{Reading}}{2} \text{ sec pk}$$

Absolute, >- 256 averages

$$\sqrt{\left(\frac{0.35 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 0.1 \times 10^{-24}} + \frac{\text{TimeScaleAccy} \cdot \text{Reading}}{2} \text{ sec pk}$$

Standard deviation, averaging disabled

$$\sqrt{\left(\frac{1.4 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 0.6 \times 10^{-24}} \text{ sec rms}$$

Standard deviation, >- 256 averages

$$\sqrt{\left(\frac{0.1 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 0.01 \times 10^{-24}} \text{ sec rms}$$

Jitter measurement floor^{6a, 6b}

Time interval error^{6c}

$$\sqrt{\left(\frac{1.0 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 0.3 \times 10^{-24}} \text{ sec rms}$$

Period jitter

$$\sqrt{\left(\frac{1.4 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 0.6 \times 10^{-24}} \text{ sec rms}$$

N-cycle, cycle-cycle jitter

$$\sqrt{\left(\frac{2.4 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 1.7 \times 10^{-24}} \text{ sec rms}$$

Infiniium 90000A Series Oscilloscopes

Performance characteristics

Acquisition

Maximum real-time sample rate	91304A/91204A/90804A: 40 GSa/s (4 channels simultaneously) 90604A/90404A/90254A: 20 GSa/s (4 channels simultaneously)						
Memory depth per channel	Standard 20 Mpts on 4 channels Option 50M 50 Mpts on 4 channels (standard on DSA models) Option 100 100 Mpts on 4 channels Option 200 200 Mpts on 4 channels Option 500 500 Mpts on 4 channels Option 01G 1 Gpts on 4 channels						
Maximum acquired time at highest real-time resolution	91304A/91204A/90804A						90604A/90404A/90254A
Resolution	25 ps (40 GSa/s)						50 ps (20 GSa/s)
Standard	0.5 ms						1.0 ms
Option 50M	1.25 ms						2.5 ms
Option 100	2.5 ms						5.0 ms
Option 200	5.0 ms						10.0 ms
Option 500	12.5 ms						25.0 ms
Option 01G	25.0 ms						50.0 ms
Data transfer speed							
Gigabit Ethernet	Samples:	1 k	64 k	1 M	16 M	32 M	128 M
	MSa/s (Word):	0.1	1.88	9.25	12.00	12.80	12.80
	MSa/s (Byte):	0.11	1.88	12.60	19.70	20.30	22.00
USB 2.0 hi-speed (device)	Samples:	1 k	64 k	1 M	16 M	32 M	128 M
	MSa/s (Word):	0.11	1.88	8.34	8.55	9.07	11.38
	MSa/s (Byte):	0.11	1.88	11.60	14.40	14.90	18.10
Sampling modes							
Real-time	Successive single-shot acquisitions						
Real-time with averaging	Selectable from 2 to 65534						
Real-time with peak detect	91304A/91204A/90804A: 40 GSa/s 90604A/90404A/90254A: 20 GSa/s						
Real-time with hi resolution	Real-time boxcar averaging reduces random noise and increases resolution						
Equivalent-time	Resolution: 100 fs Full bandwidth on all 4 channels, 262,144 sample points maximum memory						
Segmented memory	Captures bursting signals at maximum sample rate without consuming memory during periods of inactivity Number of segments: Up to 131,072 segments (depending on installed memory depth and model number) Minimum intersegment time: 91304A / 91204A / 90804A: 2.7 µs 90604A / 90404A / 90254A: 2.5 µs (the time between the end of the previous acquisition and the beginning of the next acquisition) Maximum number of segments:						
	Memory depth:	20 M	50 M	100 M	200 M	500 M	1 G
		4096	8192	16384	32768	65536	131072
Roll mode	Scrolls sequential waveform points across the display in a right-to-left rolling motion. Works at sample rates up to 10 MSa/s with a maximum record length of 40MS.						
Filters	On/off selectable FIR digital filter. Digital signal processing adds points between acquired data points to enhance measurement accuracy and waveform display quality.						
Sin(x)/x Interpolation							

Infiniium 90000A Series Oscilloscopes

Performance characteristics

Hardware trigger

Sensitivity ¹	<p>91304A/91204A/90804A: Internal low¹: 2.0 div p-p 0 to 5 GHz Internal high¹: 0.3 div p-p 0 to 4 GHz, 1.0 div p-p 4 to 7.5 GHz</p> <p>90604A/90404A/90254A¹²: Internal low¹: 2.0 div p-p 0 to 5 GHz Internal high¹: 0.3 div p-p 0 to 3 GHz, 1.0 div p-p 3 to 5 GHz Auxiliary: DC to 100 MHz: 200 mV p-p into 50 Ω 100 MHz to 1 GHz: 500 mV p-p into 50 Ω</p>
Level range	
Internal	± 4 div from center screen or ± 4 Volts, whichever is smallest
Auxiliary	± 5 V, also limit input signal to ± 5 V
Sweep modes	Auto, triggered, single
Display jitter (displayed trigger jitter) ^{6a, 8}	<p>90804A, 91204A, 91304A:</p> $\sqrt{\left(\frac{0.9 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 0.3 \times 10^{-24} \text{ sec}_{\text{rms}}}$ <p>90254A, 90404A, 90604A:</p> $\sqrt{\left(\frac{0.9 \cdot \text{Noise}}{\text{SlewRate}}\right)^2 + 0.3 \times 10^{-24} \text{ sec}_{\text{rms}}}$
Trigger sources	Channel 1, channel 2, channel 3, channel 4, aux, and line
Trigger modes	
Edge	Triggers on a specified slope (rising, falling or alternating between rising and falling) and voltage level on any channel or auxiliary trigger.
Edge transition	Trigger on rising or falling edges that cross two voltage levels in > or < the amount of time specified. Edge transition setting from 250 ps.
Edge then edge (time)	The trigger is qualified by an edge. After a specified time delay between 10 ns to 10 s, a rising or falling edge on any one selected input will generate the trigger.
Edge then edge (event)	The trigger is qualified by an edge. After a specified delay between 1 to 16,000,000 rising or falling edges, another rising or falling edge on any one selected input will generate the trigger.
Glitch	Triggers on glitches narrower than the other pulses in your waveform by specifying a width less than your narrowest pulse and a polarity. Triggers on glitches as narrow as 125 ps. Glitch range settings: < 250 ps to < 10 s.
Line	Triggers on the line voltage powering the oscilloscope.
Pulse width	Trigger on a pulse that is wider or narrower than the other pulses in your waveform by specifying a pulse width and a polarity. Triggers on pulse widths as narrow as 125 ps. Pulse width range settings: 250 ps to 10 s. Trigger point can be "end of pulse" or "time out".
Runt	Triggers on a pulse that crosses one threshold but fails to cross a second threshold before crossing the first again. Can be time qualified with minimum setting of 250 ps.
Timeout	Trigger when a channel stays high, low, or unchanged for too long. Timeout setting: from 250 ps to 10 s.
Pattern/pulse range	Triggers when a specified logical combination of the channels is entered, exited, present for a specified period of time or is within a specified time range or times out. Each channel can have a value of High (H), Low (L) or Don't care (X).
State	Pattern trigger clocked by the rising, falling or alternating between rising and falling edge of one channel.
Setup/hold	Triggers on setup, hold, or setup and hold violations in your circuit. Requires a clock and data signal on any two inputs (except aux or line) channels as trigger sources. Setup and/or hold time must then be specified.

Infiniium 9000A Series Oscilloscopes

Performance characteristics

Hardware trigger (continued)

Trigger modes (continued)	
Window	Triggers on an event associated with a window defined by two-user adjustable thresholds. Event can be window “entered,” “exited,” “inside (time qualified),” or “outside (time qualified)” voltage range. Trigger point can be “cross window boundary” or “time out.” Time qualify range: from 250 ps to 10 s.
Video	Triggers from negative sync composite video, field 1, field 2, or alternating fields for interlaced systems, any field, specific line, or any line for interlaced or non-interlaced systems. Supports NTSC, PAL-M (525/60), PAL, SECAM (625/50), EDTV (480p/60), EDTV (576p/50), HDTV (720p/60), HDTV (720p/50), HDTV (1080i/60), HDTV (1080i/50), HDTV (1080p/60), HDTV (1080p/50), HDTV (1080p/30), HDTV (1080p/25), HDTV (1080p/24), and user-defined formats.
Trigger sequences	Three stage trigger sequences including two-stage hardware (Find event (A) and Trigger event (B)) and one-stage InfiniiScan software trigger. Supports all hardware trigger modes except “edge then edge” and “video,” and all InfiniiScan software trigger modes. Supports “delay (by time)” and “reset (by time or event)” between two hardware sequences. The minimum latency between “find event (A)” and “trigger event (B)” is 3 ns.
Trigger qualification AND qualifier	Single or multiple channels may be logically qualified with any other trigger mode
Trigger holdoff range	100 ns to 10 s
Trigger actions	Specify an action to occur and the frequency of the action when a trigger condition occurs. Actions include e-mail on trigger and execute “multipurpose” user setting.
Trigger shortcuts	Provides easy shortcuts to all trigger features

Software trigger (requires InfiniiScan event identification software – Option 009)

Trigger modes	
Generic serial	Software triggers on NRZ-encoded data up to 8.0 Gbps, up to 80-bit pattern. Support multiple clock data recovery methods including constant frequency, 1st-order PLL, 2nd-order PLL, explicit clock, explicit 1st-order PLL, explicit 2nd-order PLL, Fibre Channel, FlexRay receiver, FlexRay transmitter (requires E2688A except for the constant frequency clock data recovery mode).
Measurement limit	Software triggers on the results of the measurement values. For example, when the “pulse width” measurement is turned on, InfiniiScan measurement software trigger triggers on a glitch as narrow as 75 ps. When the “time interval error (TIE)” is measured, InfiniiScan can trigger on a specific TIE value.
Non-monotonic edge	Software triggers on the non-monotonic edge. The non-monotonic edge is specified by setting a hysteresis value.
Runt	Software triggers on a pulse that crosses one threshold but fails to cross a second threshold before crossing the first again. Unlike hardware runt trigger, InfiniiScan runt trigger can be further qualified via a hysteresis value.
Zone qualify	Software triggers on the user defined zones on screen. Zones can be specified as either “must intersect” or “must not intersect.” Up to four zones can be defined.

Measurements and math

Maximum measurement update rate	> 42,000 measurement/sec (one measurement turned on) > 122,000 measurement/sec/measurement (five measurements turned on)
Measurement modes	Standard, Measure All Edges mode

Infiniium 9000A Series Oscilloscopes

Performance characteristics

Measurements and math (continued)

Waveform measurements	
Voltage	Peak to peak, minimum, maximum, average, RMS, amplitude, base, top, overshoot, preshoot, upper, middle, lower
Time	Rise time, fall time, period, frequency, positive width, negative width, duty cycle, burst width, Tmin, Tmax, Tvolt, setup time (requires Option 002, 004, or 070 standard on DSA models), hold time (requires Option 002, 004, or 070 standard on DSA models), channel-to-channel delta time, channel-to-channel phase
Mixed	Area, slew rate
Frequency domain	FFT frequency, FFT magnitude, FFT delta frequency, FFT delta magnitude
Level qualification	Any channels that are not involved in a measurement can be used to level-qualify all timing measurements
Eye-diagram measurements	
	Eye height, eye width, eye jitter, crossing percentage, Q factor, and duty-cycle distortion
Jitter analysis measurements	
Clock	Requires Option 002 (or E2681A), 004 (or N5400A), or 070 (or N8823A). Standard on DSA Series. Time interval error (TIE) clock with TIE band, high, low-pass filter, cycle-cycle jitter, N-cycle jitter, cycle-cycle + width, cycle-cycle width, cycle-cycle duty cycle
Data	Time interval error (TIE) data with TIE band, high, low-pass filter, data rate, unit interval, clock recovery rate, burst time, burst period, burst interval
Timing	Two sources: Setup time, hold time, phase, advanced One source: Period, frequency, + width, width, duty cycle, burst width, rise time, fall time, slew rate
Statistics	
	Displays the current, mean, minimum, maximum, range (max-min), standard deviation, number of measurements value for the displayed automatic measurements
Histograms	
Source	Waveform or measurement ¹³
Orientation	Vertical (for timing and jitter measurements) or horizontal (noise and amplitude change) modes, regions are defined using waveform markers
Measurements	Mean, standard deviation, mean \pm 1, 2, and 3 sigma, median, mode, peak-to-peak, min, max, total hits, peak (area of most hits), X scale hits, and X offset hits
Mask testing	
	Allows pass/fail testing to user-defined or Agilent-supplied waveform templates. Automask lets you create a mask template from a captured waveform and define a tolerance range in time/voltage or screen divisions. Test modes (run until) include test forever, test to specified time or event limit, and stop on failure. Executes "multipurpose" user setting on failure. "Unfold real time eye" feature will allow individual bit errors to be observed by unfolding a real time eye when clock recovery is on. Communications mask test kit option provides a set of ITU-T G.703, ANSI T1.102, and IEEE 802.3 industry-standard masks for compliance testing.
Waveform math	
Number of functions	Four
Hardware Accelerated Math	Differential and Common Mode
Operators	Absolute value, add, average, Butterworth ⁹ , common mode, differentiate, divide, FFT magnitude, FFT phase, FIR ⁹ , high pass filter, integrate, invert, LFE ⁹ , low pass filter (4th-order Bessel Thompson filter), magnify, max, min, multiply, RT Eye ⁹ , smoothing, SqrtSumOfSquare ⁹ , square, square root, subtract, versus, and optional user defined function (Option 010)
FFT	
Frequency range ⁴	DC up to 20 GHz (at 40 GSa/s) or 10 GHz (at 20 GSa/s)
Frequency resolution	Sample rate/memory depth = resolution
Best resolution at maximum sample rate	91304A/91204A/90804A: 800 Hz 90604A/90404A/90254A: 400 Hz
Frequency accuracy	(1/2 frequency resolution) + (1 x 10 ⁻⁶)(signal frequency)

Infiniium 9000A Series Oscilloscopes

Performance characteristics

Measurements and math (continued)

FFT (continued)	
Signal-to-noise ratio ⁵	60 dB to > 100 dB depending on settings
Window modes	Hanning, flattop, rectangular, Blackman-Harris
Measurement modes	
Automatic measurements	Measure menu access to all measurements, ten measurements can be displayed simultaneously
Multipurpose	Front-panel button activates ten pre-selected or ten user-defined automatic measurements
Drag-and-drop measurement toolbar	Measurement toolbar with common measurement icons that can be dragged and dropped onto the displayed waveforms
Snapshot	Takes 29 snap shot measurements (customizable).
Marker modes	Manual markers, track waveform data, track measurements

Display

Display	
Display	12.1-inch color XGA TFT-LCD with touch screen
Intensity grayscale	256-level intensity-graded display
Resolution XGA	1024 pixels horizontally x 768 pixels vertically
Annotation	Up to 12 labels, with up to 100 characters each, can be inserted into the waveform area
Grids	One, two or four waveform grids, each with 8 bit vertical resolution
Waveform styles	Connected dots, dots, infinite persistence, color graded infinite persistence. Includes up to 256 levels of intensity-graded waveforms.
Waveform update rate	
Maximum waveform update	> 400,000 waveforms per second (when in the segment memory mode)

Computer system and peripherals, I/O ports

Computer system and peripherals	
Operating system	Windows 7 Embedded Standard
CPU	Intel® Core 2 Duo 3.06 GHz
PC system memory	4GB DDR2 (standard)
Drives	≥ 250-GB internal hard drive Optional removable hard drive (Option 801) Optional USB external DVD-RW drive (Option 820)
Peripherals	Logitech optical USB mouse, compact USB keyboard and stylus supplied. All Infiniium models support any Windows-compatible input device with a serial, PS/2 or USB interface.
File types	
Waveforms (supported max memory size)	Compressed internal format (*.wfm (200 Mpts)), comma-separated values (*.csv (1 Gpts)), tab separated values (*.tsv (1 Gpts)), public binary format (.bin (500 Mpts)), Y value files (*.txt (1 Gpts)), hierarchal data file (*.hf5(1 Gpts)),
Images	BMP, PNG, TIFF, GIF or JPEG
I/O ports	
LAN	RJ-45 connector, supports 10Base-T, 100Base-T, and 1000Base-T. Enables Web-enabled remote control, e-mail on trigger or demand, data/file transfers and network printing (VXI-11). Recommended Web remote control tool: Ultra VNC (http://www.ultravnc.com/).

Infiniium 90000A Series Oscilloscopes

Performance characteristics

Computer system and peripherals, I/O ports (continued)

I/O ports (continued)	
PCI Express	PCI Express x4 link, enabled by sockets (optional- Option 823)
GPIO	IEEE 488.2, fully programmable (optional – Option 805)
RS-232 (serial)	COM1, printer and pointing device support
Parallel	Centronics printer port
PS/2	Two ports. Supports PS/2 pointing and input devices.
USB 2.0 hi-speed (host)	Three USB 2.0 hi-speed host ports on front panel plus four USB 2.0 Hi-Speed host ports on rear panel
USB 2.0 hi-speed (device)	One USB 2.0 hi-speed device port on rear panel that enables USB instrument control
Dual-monitor video output	15 pin XGA (1024x768), full color output of scope waveform display or dual monitor video output
Auxiliary output	DC (± 2.4 V); square wave (~715 Hz and ~456 MHz); trigger output (255 mV p-p into 50)
Trigger output	5 V 50 Ω back-terminated
Time base reference output	10 MHz filtered sine wave with all harmonics ≤ -40 dBc. Amplitude into 50 Ω : 800 mV p-p to 1.26 V p-p (4 dBm ± 2 dB) if derived from internal reference. Tracks external reference input amplitude ± 1 dB if applied and selected.
Time base reference input	Must be 10 MHz, input Z0 = 50 Ω . Minimum 500 mV p-p (-2 dBm), maximum 2.0 V p-p (+10 dBm).
LXI compliance	Functional Class C

General characteristics

Temperature ¹¹	Operating: 5 °C to +40 °C; Non-operating: -40 °C to +65 °C
Humidity	Operating: up to 95% relative humidity (non-condensing) at +40 °C; Non-operating: up to 90% relative humidity at +65 °C
Altitude	Operating: up to 4,000 meters (12,000 feet); Non-operating: up to 15,300 meters (50,000 feet)
Vibration	Operating random 0.21 g(rms), non-operating random 2.0 g(rms), swept sins (0.50 g(rms))
Power	100 - 240 VAC at 50/60 Hz; maximum input power 800 Watts
Weight	Net: 20 kg (44 lbs.) Shipping: 27.4 kg (60 lbs.)
Dimensions (excluding handle)	Height: 283 mm (11.13 inch); Width: 432 mm (17.02 inch); Depth: 506 mm (19.91 inch)
Safety	Meets IEC 61010-1 +A2, CSA certified to C22.2 No.1010.1, self-certified to UL 3111

* Denotes warranted specifications, all others are typical. Specifications are valid after a 30-minute warm-up period, and ± 5 °C from annual calibration temperature.

1 Full scale is defined as 8 vertical divisions. Magnification is used below 5 mV/div. Below 5 mV/div, full-scale is defined as 40 mV. The major scale settings are 5 mV, 10 mV, 20 mV, 50 mV, 100 mV, 200 mV, 500 mV, 1 V.

2 Vertical resolution for 8 bits = 0.4% of full scale, for 12 bits = 0.024% of full scale.

3 13 GHz DSP enhanced bandwidth not applicable at 5 mV/div.

4 FFT amplitude readings are affected by scope and probe bandwidth limitations and input amplifiers roll-off (e.g. 3 dB roll-off at specified bandwidth of scope/probe).

5 The FFT signal to noise ratio varies with volts/division setting, memory depth and use of time or frequency averaging.

6a Noise is the displayed noise floor. SlewRate is the displayed slew rate of the signal at the threshold crossings. Sample rate = max, sin(x)/x interpolation enabled.

6b Measurement threshold = fixed voltage at 50% level.

6c Time ranges ≤ 10 μ s.

7 Values represent time error between two edges on a single channel. Standard deviation value refers to the standard deviation of 256 consecutive measurements performed using an individual instrument. Reading is the displayed DTMA measurement value. TimeScaleAccy is the oscilloscope's specified time scale accuracy.

8 Internal edge trigger mode. Trigger threshold = fixed voltage at 50% level. The slew rate independent value in the formula represents the traditional trigger jitter.

9 Requires Option 010 user defined function.

10 11.8 GHz analog bandwidth at 5 mV/div for DS091304A and DS091204A models.

11 Calculated from the bandwidth.

12 Typically triggers as low as 5 mV/div sensitivity.

13 Measurement histograms require EZJIT license

InfiniiMax II Series

Performance characteristics

1169A, 1168A

Bandwidth*	1169A: > 12 GHz (13 GHz typical)	1168A: > 10 GHz
Rise and fall time		
Probe only	1169A: 28 ps (20 - 80%), 40 ps (10 - 90%)	1168A: 34 ps (20 - 80%), 48 ps (10 - 90%)
When phase compensated by 90000A Series oscilloscope	1169A w/91204A: 25 ps (20 - 80%) 36 ps (10 - 90%) 1169A w/91304A: 23 ps (20 - 80%) 33 ps (10 - 90%)	1168A w/90804A: 38 ps (20 - 80%) 54 ps (10 - 90%)
System bandwidth (-3 dB)	1169A w/91304A: 13 GHz (typical) 1169A w/91204A: 12 GHz	1168A w/90804A: 8 GHz
Input capacitance ¹	Cm = 0.09 pF Cm is between tips Cg = 0.26 pF Cg is to ground for each tip Cdiff = 0.21 pF Differential mode capacitance = Cm + Cg/2 Cse = 0.35 pF Single-ended mode capacitance = Cm + Cg	
Input resistance*	Differential mode resistance = 50 kΩ ± 2% Single-ended mode resistance = 25 kΩ ± 2%	
Input dynamic range	3.3 V peak to peak, ± 1.65 V	
Input common mode range	6.75 V peak to peak dc to 100 Hz; 1.25 V peak to peak > 100 Hz	
Maximum signal slew rate	25 V/ns when probing a single-ended signal 40 V/ns when probing a differential signal	
DC attenuation	3.45:1	
Zero offset error referred to input	± 1.5 mV	
Offset range	± 16.0 V when probing single-ended	
Offset gain accuracy	< ± 1% of setting when probing single-ended	
Noise referred to input	2.5 mV rms, probe only	
Propagation delay	~6 ns (this delay can be deskewed relative to other signals)	
Maximum input voltage	30 V peak, CAT I	
ESD tolerance	> 8 kV from 100 pF, 300 Ω HBM	
Temperature	Operating: 5 °C to +40 °C Non-operating: 0 °C to +70 °C	

* Denotes warranted specifications, all others are typical.

¹ Measured using the probe amplifier and N5381A solder-in differential probe head.



InfiniiMax I Series

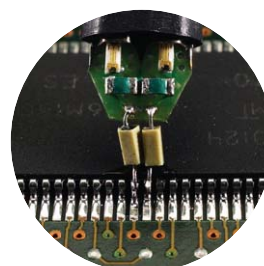
Performance characteristics

1134A, 1132A, 1131A, 1130A

Bandwidth*	1134A: > 7 GHz 1132A: > 5 GHz	1131A: > 3.5 GHz 1130A: > 1.5 GHz
Rise and fall time (10% to 90%)	1134A: 60 ps 1132A: 86 ps	1131A: 100 ps 1130A: 233 ps
System bandwidth (-3 dB)	1134A w/90604A: 6 GHz 1132A w/90404A: 4 GHz 1131A w/90254A: 2.5 GHz	
Input capacitance ¹	C _m = 0.10 pF C _m is between tips C _g = 0.34 pF C _g is to ground for each tip C _{diff} = 0.27 pF Differential mode capacitance = C _m + C _g /2 C _{se} = 0.44 pF Single-ended mode capacitance = C _m + C _g	
Input resistance*	Differential mode resistance = 50 kΩ ± 2% Single-ended mode resistance = 25 kΩ ± 2%	
Input dynamic range	5.0 V peak to peak, ± 2.5 V	
Input common mode range	6.75 V peak to peak dc to 100 Hz; 1.25 V peak to peak > 100 Hz	
Maximum signal slew rate	18 V/ns when probing a single-ended signal 30 V/ns when probing a differential signal	
DC attenuation	10:1 ± 3% before calibration on oscilloscope 10:1 ± 1% after calibration on oscilloscope	
Zero offset error referred to input	< 30 mV before calibration on oscilloscope < 5 mV after calibration on oscilloscope	
Offset range	± 12.0 V when probing single-ended	
Offset accuracy	< ± 1% of setting when probing single-ended	
Noise referred to input	3.0 mV rms	
Propagation delay	~6 ns (this delay can be deskewed relative to other signals)	
Maximum input voltage	30 V peak, CAT I	
ESD tolerance	> 8 kV from 100 pF, 300 Ω HBM	
Temperature	Operating: 5 °C to +40 °C Non-operating: 0 °C to +70 °C	

* Denotes warranted specifications, all others are typical.

¹ Measured using the probe amplifier and solder-in differential probe head with full bandwidth resistors.



Infiniium 90000 Series ordering information

Infiniium DSA/DSO90000A Series oscilloscopes

Model	Bandwidth	Channels	Sample rate	Standard memory
DSA/DSO91304A	13 GHz	4	40 GSa/s	20 Mpts/50 Mpts (DSA)
DSA/DSO91204A	12 GHz	4	40 GSa/s	20 Mpts/50 Mpts (DSA)
DSA/DSO90804A	8 GHz	4	40 GSa/s	20 Mpts/50 Mpts (DSA)
DSA/DSO90604A	6 GHz	4	20 GSa/s	20 Mpts/50 Mpts (DSA)
DSA/DSO90404A	4 GHz	4	20 GSa/s	20 Mpts/50 Mpts (DSA)
DSA/DSO90254A	2.5 GHz	4	20 GSa/s	20 Mpts/50 Mpts (DSA)

Note: The DSA/DSO91304A uses DSP enhancement software to achieve 13 GHz bandwidth. It also adds a valuable DSP noise reduction and bandwidth control feature to reduce noise at bandwidths of 10, 8, 6, 4, 2, and 1 GHz. The non-DSP enhanced bandwidth of the DSA/DSO91304A is 12 GHz. DSA Series comes with standard 50 Mpts memory, high speed serial data analyzer (Option 003/E2688A), EZJIT Complete jitter analysis software (Option 070/N8823A)

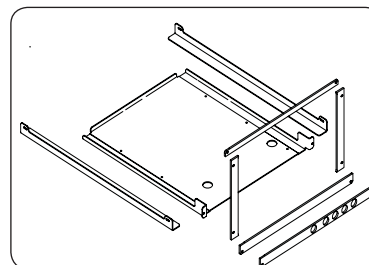
Standard accessories

- USB optical mouse
- USB keyboard
- User's quick-start guide
- Detachable accessory pouch
- Power cord
- Stylus pen
- High-performance calibration cable (not included in DSA/DSO90254A)
- E2655B probe deskew and performance verification kit
- Two 54855-67604 BNC-compatible to precision 3.5 mm (f) adapters (not included in DSA/DSO90254A)
- One-year warranty

Note: No probes are included with the DSA/DSO90000A Series oscilloscopes. The InfiniiMax Series probes or any other probes must be purchased separately.

Additional options and accessories

DSO90000A-1CM	Rack Mount Kit
DSO90000A-A61	ANSI Z540 Compliant Calibration
DSO90000A-801	Removable Solid State Drive
N2892A (requires Option 801)	Additional removable solid state drive for 90000 Series with Windows 7
DSO90000A-805	GPIO Card-interface
DSO90000A-807	1 M ohm, adapter with a 500 MHz passive probe
DSO90000A-820	DVD-RW
DSO90000A-821	Additional Precision BNC to SMA adapters, qty 2
DSO90000A-822	External Touchscreen Monitor for Infiniium
DSO90000A-1A7	ISO17025 Compliant Calibration



Mount your 90000 Series scope in a 19" (487 mm) rack with option 1CM

Presales memory options

DSO90000A-20M	20M Memory / CH Upgrade
DSO90000A-100	100M Memory / CH Upgrade
DSO90000A-200	200M Memory / CH Upgrade
DSO90000A-500	500M Memory / CH Upgrade
DSO90000A-50M	50M Memory / CH Upgrade*
DSO90000A-01G	1G Memory / CH Upgrade

* Standard on DSA version oscilloscopes



Quickly remove your hard drive for additional security with Option 801

Infiniium 90000 Series ordering information

Factory installed option for new purchases	User installed standalone product number	SW applications
002	E2681A	EZJIT jitter analysis software (standard on DSA Series)
003	E2688A	High-Speed serial data analysis with clock recovery and 8b/10b decoding (standard on DSA Series)
004	N5400A	EZJIT Plus jitter analysis software (standard on DSA Series)
005	N5403A	Noise reduction and bandwidth control option (standard on DSA Series and DS091304A)
007	N5391A	Protocol triggering and decode I ² C/SPI
008	N5402A	CAN, LIN and FlexRay Protocol triggering and decode
009	N5414B	InfiniiScan event identification software
010	N5430A	Infiniium user-defined function application software
011	N5452A	Infiniium application remote program interface software
012	N5461A	Serial Data Equalization
013	N5465A-001	Basic InfiniiSim Waveform Transformation Toolset
014	N5465A-002	Advanced InfiniiSim Waveform Transformation Toolset
015	N5462A	RS-232/UART Protocol triggering and decode
016	N5464A	USB 2.0 Protocol triggering and decode
017	N5463A	PCI Express® Protocol triggering and decode
018	N8801A	SAS/SATA Protocol triggering and decode
019	N8802A	MIPI D-Phy Protocol triggering and decode
021	N5392A	Ethernet electrical performance validation and compliance software
022	N5393B	PCI EXPRESS electrical performance validations and compliance software
023	N5399A	HDMI electrical performance validation and compliance software
024	N5409A	Fully buffered DIMM compliance applications
025	N5410A	Fibre channel compliance applications
026	N5411A	Serial ATA electrical performance validation and compliance software
027	N5412A	Serial attached SCSI (SAS) electrical performance validation and compliance
029	N5416A	USB 2.0 compliance test software
030	N5431A	XAUI electrical validation with 10GBASE-CX4, CPRI, OBSAI, and Serial RapidIO
031	U7233A	DDR1 and LPDDR compliance test applications
032	N5413B	DDR2 and LPDDR2 compliance test applications
033	U7231A	DDR3 compliance test applications
034	N5394A	DVI compliance application
035	U7238A	MIPI compliance test application
036	U7236A	10GBASE-T Ethernet Electrical Compliance Application
038	N5411B	SATA 6G Compliance Test Software
040	N5467A	User Definable Application
041	U7243A	USB 3.0 Compliance Test Software
045	U7232B	DisplayPort compliance test software
058	N6462A	DDR4 compliance test application
060	N5392B	10/100/1000BTe Energy Efficient Ethernet
061		MATLAB - Basic Digital Analysis Package
062		MATLAB - Standard Digital Analysis Package
065	N6467A	BroadR-Reach compliance
070	N8823A	EZJIT Complete jitter and noise analysis software (Standard on DSA Series)
073	N6466A	MOST compliance

Infiniium 90000 Series ordering information

Oscilloscope bandwidth upgrades

Upgrade	Descriptions
N5471A	DSA/DSO91204A to DSA/DSO91304A upgrade (12 GHz to 13 GHz)
N5471B	DSA/DSO90804A to DSA/DSO91204A upgrade (8 GHz to 12 GHz)
N5471C	DSA/DSO90604A to DSA/DSO90804A upgrade (6 GHz to 8 GHz)
N5471D	DSA/DSO90404A to DSA/DSO90604A upgrade (4 GHz to 6 GHz)
N5471E	DSA/DSO90254A to DSA/DSO90404A upgrade (2.5 GHz to 4 GHz)

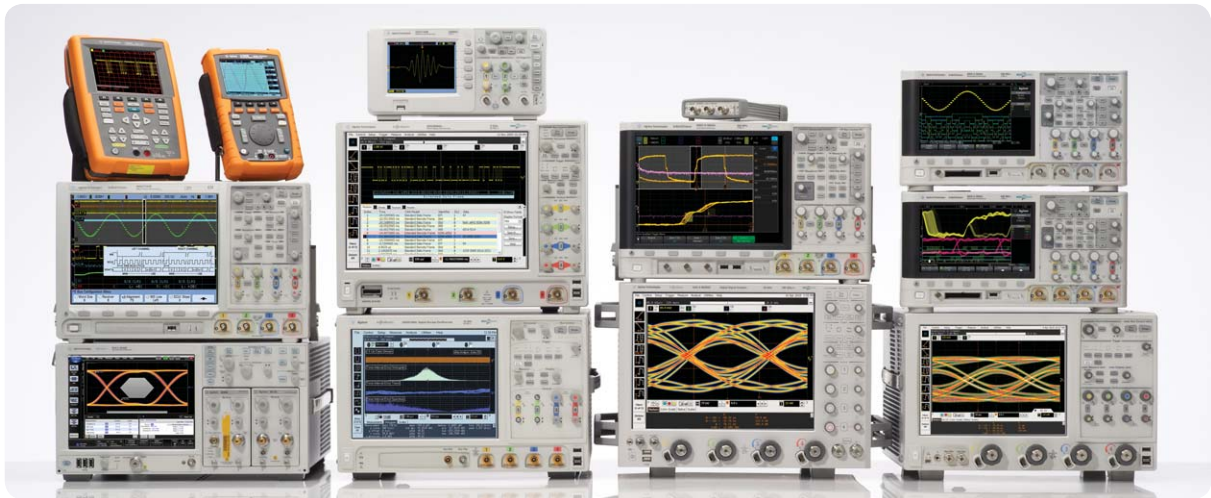
Note: Order as many upgrades as needed to reach the desired final bandwidth of the instrument. For example, to upgrade from a DSA/DSO90804A to DSA/DSO91304A order N5471B and N5471A.

Oscilloscope memory upgrades

Upgrade	Descriptions
N5472A	AFTER-PURCHASE 10M TO 20M MEMORY UPGRADE
N5472B	AFTER-PURCHASE 20M TO 50M MEMORY UPGRADE
N5472C	AFTER-PURCHASE 50M TO 100M MEMORY UPGRADE
N5472D	AFTER-PURCHASE 100M TO 200M MEMORY UPGRADE
N5472E	AFTER-PURCHASE 200M TO 500M MEMORY UPGRADE
N5472F	AFTER-PURCHASE 500M TO 1G MEMORY UPGRADE

Operating system upgrades

Upgrade	Descriptions
N2753A	Windows 7 for Infiniium 90000 scope with Windows XP and SN>MY50410100
N2754A Option 001	Window 7 and M890 motherboard for Infiniium 90000 scopes with Windows XP and SN <MY50410100



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