

Infiniium DSO80000B Series Oscilloscopes and InfiniiMax Series Probes

2 GHz to 13 GHz Oscilloscope Measurement Systems



Superior signal integrity and probing performance for your applications

Agilent Technologies' Infiniium DSO80000B Series scopes and InfiniiMax II probing system measurements and increase design margins. The signal integrity advantages of DSO80000B Series scopes and the InfiniiMax probing system include the industry's lowest noise floor, lowest jitter measurement floor, lowest trigger jitter and flattest frequency response. These foundational capabilities are crucial for achieving accurate and repeatable measurements.

These superior signal integrity capabilities come from Agilent's RF and MW design experience, proprietary packaging technologies and unique CMOS ADC architecture. Superior signal integrity maximizes your design margins by keeping you from measurement accuracy due to poor noise, jitter or frequency response of the scope or probing system. The probing advantages of the InfiniiMax Series probes include low noise and flat frequency response.



Front end of DSO80000B
with Faraday Cage
technology

Features

- 2 GHz to 13 GHz bandwidth real-time oscilloscopes all with up to 40 GSa/s sample rate
- Up to 2 Mpts MegaZoom deep memory at 40 GSa/s sample rates and 64 Mpts MegaZoom deep memory at 4 GSa/s
- Industry's lowest noise floor for both oscilloscopes and probes
- Industry's lowest jitter measurement floor
- Industry's lowest trigger jitter – less than 500 fs rms
- Industry's flattest frequency response
- Industry's only full bandwidth probe system for all use models – up to 13 GHz bandwidth for differential solder-in, browser and SMA connections
- Industry's only bandwidth upgradeable series from 2 GHz to 13 GHz via the After-Burner II upgrade program
- Industry's largest selection of application software packages
- Includes touch screen, XGA display, front-panel USB port, 2.93 GHz CPU and intensity graded waveforms



Agilent Technologies

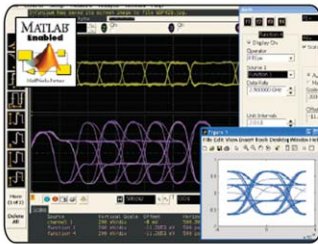
The world's best high-speed probing system

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. 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.



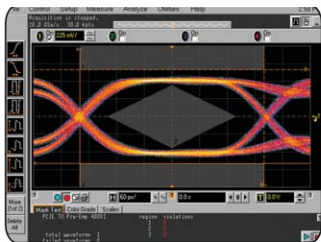
Enhance your measurements with the analysis power of MATLAB®

N5430A Infiniium user-defined function software allows you to create and execute your own custom math and analysis functions using the power of the MATLAB® software environment from The MathWorks. Agilent Infiniium oscilloscopes allow you to display your math and analysis functions created in MATLAB live on the oscilloscope screen.



High-speed serial data analysis and mask testing with clock recovery

Easily perform mask testing and characterize serial data streams that employ embedded clocks. E2688A software provides mask templates and clock recovery for verifying compliance to data communication standards. You can even characterize proprietary serial buses with the built-in, general purpose golden PLL clock recovery.

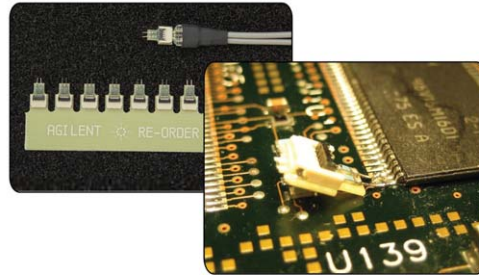


For more information:
www.agilent.com/find/dso80000b

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First lead-free and economical solder-in-probe solution with InfiniiMax signal integrity

The InfiniiMax ZIF probe head and ZIF tip will enhance the InfiniiMax probe head line-up by adding premium, full-bandwidth, and lead-free, yet low-cost replaceable solder-in-probing solution. InfiniiMax ZIF probe head with ZIF tip is the world's first lead-free low-cost solder-in solution, to meet RoHS compliance standards.



Identify and quantify jitter with EZJIT and EZJIT Plus jitter analysis software

With faster edge speeds and shrinking data valid windows in today's high-speed digital designs, insight into the causes of jitter has become critical for success. EZJIT (E2681A) and EZJIT Plus (N5400A) software combined with Agilent's Infiniium oscilloscopes, is a key tool for identifying and quantifying jitter components that affect the reliability of your design.



Identify signal integrity issues with InfiniiScan event identification software

The innovative N5414A InfiniScan software helps you quickly and easily identify signal integrity issues. The software can scan for multiple events simultaneously with resolution down to 70-ps events and offers automated navigation to failure events. InfiniiScan software finders consist of: measurement, zone qualify, generic serial, non-monotonic edge and runt. InfiniiScan goes beyond the classic limitations of hardware triggering and deep memory.

