

InfiniiMax 4 Series High-Bandwidth Probing System

Experience the Future of Probing and Accelerate the High-Speed Testing

The InfiniiMax 4 series probes stand out as the market's premier high-bandwidth probing solution, offering capabilities of up to 52GHz. This probe incorporates Keysight's cutting-edge designs and leverages Keysight-proprietary InP IC process technology. It is meticulously engineered to tackle the complexities of assessing next-generation high-speed signals, delivering unparalleled performance and precision. The InfiniiMax 4 offers comprehensive support, featuring up to 52 GHz Brickwall response and 40 GHz Bessel Thompson response, ensuring it meets the demands of next-generation testing requirements.

InfiniiMax 4 key specifications

- Bandwidth up to 52 GHz (Brickwall), 40 GHz (Bessel-Thomson) with two input attenuation settings
- DC input resistance 103.1 Kohm, Differential with two different solder-in prob tips
- Noise spectral density referred to input is 27.1 nV/rtHz(low attenuation) to 43.8 nV/rtHz(high attenuation)



Model	Description	Notes
MX0032A	52 GHz InfiniiMax 4 probe amplifier (with 40 GHz B-T filter)	Compatible with Infinium UXR 1.85 / 1 mm Series models with AP3 interface
MX0031A	52 GHz InfiniiMax 4 probe amplifier	Compatible with Infinium UXR 1.85 / 1 mm Series models with AP3 interface
MX0030A	42 GHz InfiniiMax 4 probe amplifier	Compatible with Infinium UXR 1.85 / 1 mm Series models with AP3 interface
MX0040A	InfiniiMax 4 probe head connector	Required for connecting MX0041A and MX0042A
MX0041A	InfiniiMax 4 differential solder-in probe head - 52 GHz 5 pack (option 001) 25 pack (option 002)	Highest bandwidth probe heads (MX0040A required), 40 mm long
MX0042A	InfiniiMax 4 differential solder-in probe head - 42 GHz 5 pack (option 001) 25 pack (option 002)	Longer tip-length probe heads (MX0040A is required), 60 mm long
MX0045A	InfiniiMax 4 adapter to InfiniiMax III probe head	InfiniiMax 4 to InfiniiMax III/III+ probe head adapters
MX0046A	InfiniiMax 4 mounting cradles	For positioning InfiniiMax 4 connectors

Innovative Probing System



Unparalleled bandwidth and compatibility

The InfiniiMax 4 offers comprehensive support, featuring up to 52 GHz Brickwall response and 40 GHz Bessel Thompson response, ensuring it meets the demands of next-generation testing requirements. This includes support for faster PCIe, and 400G/800G technologies.

Efficiency and reliability in debugging

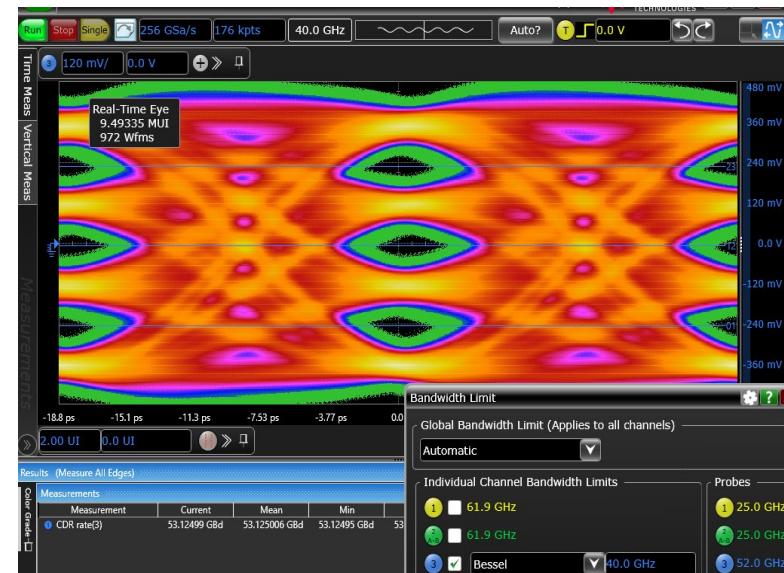
Saves time and minimizes errors as a turnkey solution with a high-impedance probe head and a modular design featuring an amp with multiple access points that bypasses the need for custom evaluation boards or interposers. Moreover, InfiniiMax 4 can quickly evaluate the critical link between transmitters and receivers in high-speed digital systems.

Innovative design

Offers industry's first RCRC design with a flexible PCA probe head that uses the natural flexibility of the PCA to take the strain off the delicate tip wires. The removable flex PCA tips allows the most delicate portion of the tip to be removed and replaced.

Built on proven Keysight technology

This probe incorporates Keysight's cutting-edge designs and leverages Keysight-proprietary InP IC process technology, extending equipment investments through compatibility with Keysight's real-time UXR-B Series oscilloscopes as well as the InfiniiMax III probe head.



802.3CK 53.125 Gbaud rate measurement with InfiniiMax 4 solder-in probes (MX0032A/MX0041A with 40GHz Bessel-Thomson filter)

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.