

Product Fact Sheet

Keysight N2830A Series InfiniiMax III+ Probing System

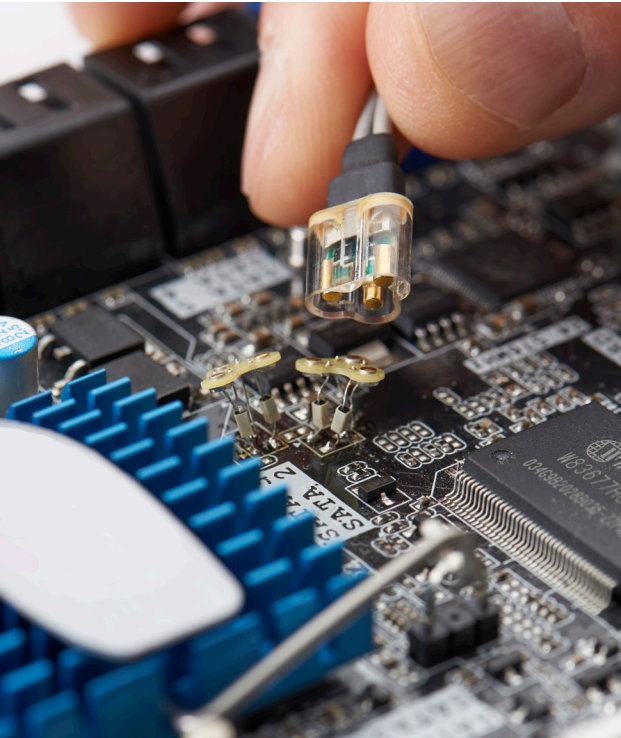
Beyond State-of-the-Art Performance

- 4, 8, 13 GHz bandwidth
- “InfiniiMode” probe – differential, single-ended and common mode measurement
- Probe amp loaded with measured S-parameter for more accurate AC correction
- Compatible with all InfiniiMax III accessories and new quicktip
- Compatible with Infiniium S-Series, 90000A, 90000 X- and 90000 Q-Series oscilloscopes with N5442A adapter

The N2830A Series InfiniiMax III+ is the next generation of the InfiniiMax probing system. It greatly expands the measurement capabilities and usability of a probe capable of measuring all the components of a differential signal. The built-in InfiniiMode technology allows customers to switch to differential, single-ended and common mode without adjusting probe tip connections.



The N2848A/49A QuickTip offers the industry’s first magnetically-engaged probe head and tip for a quick and secure connection. The N2848A QuickTip probe head easily snaps to the N2849A probe tip using magnets to connect the two sides of the differential signal and ground. Multiple N2849A probe tips can be installed on a DUT, allowing quick and reliable measurement of many probe points. QuickTip supports the InfiniiMode probing when used with the InfiniiMax III+ probe amp.



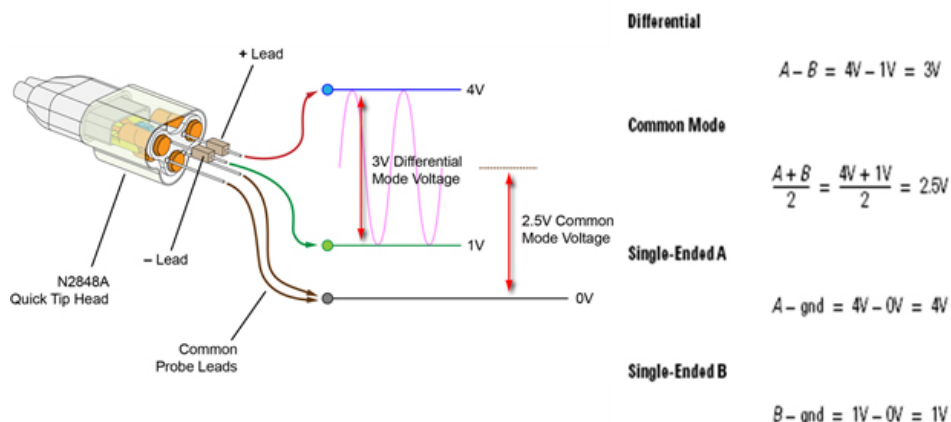
Key specifications and applications

Option	Description
Bandwidth (–3 dB)	4, 8, 13 GHz
Input attenuation ratio	5:1 or 10:1
Differential input resistance	100 k Ω @ DC, 1 k Ω @ > 10 kHz
Differential input range	5 Vpp @10:1, 2.5 Vpp @ 5:1
Offset range	$\pm$ 16 V
Noise (probe only referred to input)	33.5 nV/rt (Hz) @ 5:1 53.9 nV/rt (Hz) @ 10:1
Max input voltage	18 V peak CAT I

Ideal for digital design, validation and compliance testing on USB, MIPI, HDMI, DisplayPort, MHL, DDR, Ethernet and more

What is InfiniiMode?

InfiniiMode allows convenient measurement of differential, single-ended and common mode signals with a single probe tip – without reconnecting the probe from its connection point.



Probe models

- N2830A 4 GHz InfiniiMax III+ probe amplifier
- N2831A 8 GHz InfiniiMax III+ probe amplifier
- N2832A 13 GHz InfiniiMax III+ probe amplifier

Recommended probe heads

- N5445A differential browser
- N2848A quicktip head (InfiniiMode)
- N2849A quicktip tips
- N5441A solder-in head (differential only, low cost)
- N2836A solder-in head (InfiniiMode)
- N5439A ZIF head
- N2838A PCB ZIF tips (robust, normal sensitivity)
- N5447A ceramic ZIF tips (low loading, high sensitivity)
- N5440A ceramic ZIF tips (low loading, normal sensitivity)
- N5444A 2.92 mm/3.5 mm/SMA head (InfiniiMode)

Other recommended accessories

- N2787A 3D probe positioner
- E2655C performance verification and deskew fixture
- N5450B extension cable

Compatible oscilloscopes

- Infiniium S-Series, 90000A, 90000 X- and 90000 Q-Series oscilloscopes with N5442A (with Infiniium software version 5.0 or higher)

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