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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2832A

HP Agilent Keysight N2832A InfiniiMax III+ Probe Amplifier 13 GHz The Keysight N2832A is an InfiniiMax III+ probe amplifier rated 13 GHz with InfiniiMode so differential, single-ended, and common-mode measurements can be made without changing probe-tip connections. OEM III/III+ data sheet 5990-5653EN and selection-guide rows list 5:1/10:1 attenuation, 100 kOhm differential input resistance class, and III+ noise density values. 13 GHz-class differential serial bus and RFIC probing on Infiniium scopes with InfiniiMax III/III+ heads. The Keysight N2832A is an InfiniiMax III+ probe amplifier rated 13 GHz with InfiniiMode so differential, single-ended, and common-mode measurements can be made without changing probe-tip connections. OEM III/III+ data sheet 5990-5653EN and selection-guide rows list 5:1/10:1 attenuation, 100 kOhm differential input resistance class, and III+ noise density values. 13 GHz-class differential serial bus and RFIC probing on Infiniium scopes with InfiniiMax III/III+ heads. Instrument Type: InfiniiMax III+ probe amplifier



MODEL

**Agilent / Keysight
N2832A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2832A

LISTING

<https://aumictechlabs.com/products/n2832a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2832A is a probe amplifier in the InfiniiMax III+ Series, delivering 13 GHz bandwidth for precise high-speed signal analysis. This probe head enables accurate measurements across differential, single-ended, and common mode configurations without

changing probe tip connections, using InfiniiMode technology. The N2832A combines exceptional signal fidelity with flexible measurement modes, making it essential for engineers validating high-speed digital designs and characterizing complex electronic systems.

Technical Specifications

Bandwidth: 13 GHz (-3 dB) Transition Time: 33.4 ps (10-90%) Input Impedance (DC, Differential): 100 k Ω $\pm$ 2% Input Impedance (DC, Single-ended): 50 k Ω $\pm$ 2% Input Impedance (>10 kHz, Differential): 1 k Ω Input Impedance (>10 kHz, Single-ended): 500 Ω Input Capacitance (Differential, ZIF probe head): 32 fF Input Capacitance (Single-ended, ZIF probe head): 44 fF

Key Features

InfiniiMode Technology: Switch between differential, single-ended (A-ground, B-ground), and common mode ((A+B)/2)-ground measurements without altering probe tip connections

DSP Correction: Flat magnitude and phase response for high-accuracy measurements

AutoProbe Interface: Supports automatic configuration and probe power delivery

S-Parameter Measurement: Equipped for characterizing probe response

DC Attenuation Options: Selectable 10:1 or 5:1 ratios

Input Voltage Range (5:1 attenuation): 2.5 Vpp or $\pm$ 1.25 V

Input Voltage Range (10:1 attenuation): 5 Vpp or $\pm$ 2.5 V

Input Common Mode Range (>100 Hz, 5:1): $\pm$ 1.25 V

Input Common Mode Range (>100 Hz, 10:1): $\pm$ 2.5 V

Input Common Mode Range (DC to 100 Hz): $\pm$ 7 VDC

Single-Ended Offset Range: $\pm$ 16 V

Typical Applications

High-speed digital design validation

Signal characterization and analysis

Complex electronic system measurement

Compatibility & Integration

Works with InfiniiMax III probe heads including the N2848A QuickTip, N5445A browser head, N5439A ZIF, N5444A 2.92 mm/3.5 mm/SMA, and N5441A solder-in probe head. Compatible with Keysight Infiniium oscilloscopes (90000X, 90000A series and supported InfiniiMax III+ models).

Note: Not compatible with InfiniiMax I or II probe heads.

N2832A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	InfiniiMax III+ probe amplifier
Amplifier Bandwidth	13 GHz
Series Family	Keysight N2830/N2831/N2832/N2833 InfiniiMax III+
Scope Interface	AutoProbe
InfiniiMode Differential	A minusBInfiniiMode Single Ended A: A minus ground
InfiniiMode Single Ended B	B minus ground
InfiniiMode Common Mode	(A plus B)/2 minus ground
Dc Attenuation	5:1 or 10:1 automatically selected from volts/division
Dc Input Resistance Differential	100 kOhm plus or minus 2 percent
Dc Input Resistance Single Ended	50 kOhm plus or minus 2 percent
Input Capacitance Class	0.32 pF differential class
Input Voltage 5 To	2.5 Vpp or plus or minus 1.25 V
Input Voltage 10 To	5.0 Vpp or plus or minus 2.50 V
Noise Diff 5 To	33.5 nV per sqrt Hz
Noise Diff 10 To	53.9 nV per sqrt Hz
Noise Se 5 To	27.8 nV per sqrt Hz
Noise Se 10 To	47.7 nV per sqrt Hz
Noise Cm 5 To	21.8 nV per sqrt Hz
Noise Cm 10 To	38.4 nV per sqrt Hz
Head Compatibility	InfiniiMax III/III+ probe heads
Offset Range Class	plus or minus 16 V class
Literature	Keysight 5990-5653EN and probes selection guide
Recommended Oscilloscope Class	Infiniium models supporting AutoProbe InfiniiMax III+
Bandwidth	13 GHz
Attenuation	5:1 or 10:1 automatically selected from volts/division

N2832A Specifications

PARAMETER	VALUE
Applications	13 GHz-class differential serial bus and RFIC probing on Infiniium scopes with InfiniiMax III/III+ heads.
InfiniiMode without reconnection	13 GHz amplifier bandwidth
AutoProbe interface	5:1/10:1 automatic attenuation
Technical Specifications	Instrument Type: InfiniiMax III+ probe amplifier

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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PARAMETER	VALUE
Instrument Type	InfiniiMax III+ probe amplifier
Amplifier Bandwidth	13 GHz
Series Family	Keysight N2830/N2831/N2832/N2833 InfiniiMax III+
Scope Interface	AutoProbe
InfiniiMode Differential	A minusBInfiniiMode Single Ended A: A minus ground
InfiniiMode Single Ended B	B minus ground
InfiniiMode Common Mode	(A plus B)/2 minus ground
Dc Attenuation	5:1 or 10:1 automatically selected from volts/division
Dc Input Resistance Differential	100 kOhm plus or minus 2 percent
Dc Input Resistance Single Ended	50 kOhm plus or minus 2 percent
Input Capacitance Class	0.32 pF differential class
Input Voltage 5 To 1	2.5 Vpp or plus or minus 1.25 V
Input Voltage 10 To 1	5.0 Vpp or plus or minus 2.50 V
Noise Diff 5 To 1	33.5 nV per sqrt Hz
Noise Diff 10 To 1	53.9 nV per sqrt Hz
Noise Se 5 To 1	27.8 nV per sqrt Hz
Noise Se 10 To 1	47.7 nV per sqrt Hz
Noise Cm 5 To 1	21.8 nV per sqrt Hz
Noise Cm 10 To 1	38.4 nV per sqrt Hz
Head Compatibility	InfiniiMax III/III+ probe heads
Offset Range Class	plus or minus 16 V class
Literature	Keysight 5990-5653EN and probes selection guide
Recommended Oscilloscope Class	Infiniium models supporting AutoProbe InfiniiMax III+
Notes	
Bandwidth from Keysight N2832A product/selection-guide listing. Electrical attenuation, input voltage, and noise rows from InfiniiMax III/III+ data sheet 5990-5653EN III+ tables.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.