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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) N2800A 16 GHz InfiniiMax III Series Probe Amplifier

Keysight / Agilent N2800A 16 GHz InfiniiMax III Probe Amplifier The N2800A is a 16 GHz InfiniiMax III probe amplifier for Infiniium 90000X Series oscilloscopes. Fully upgradable within the InfiniiMax III family to higher bandwidths. Discontinued and replaced by N7002A (InfiniiMax III+); heads are InfiniiMax III family only (not I/II). The N2800A is a 16 GHz InfiniiMax III probe amplifier for Infiniium 90000X Series oscilloscopes. Fully upgradable within the InfiniiMax III family to higher bandwidths. Discontinued and replaced by N7002A (InfiniiMax III+); heads are InfiniiMax III family only (not I/II).



MODEL

**Keysight / Agilent
N2800A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

N2800A

LISTING

<https://aumictechlabs.com/products/n2800a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight N2800A is a 16 GHz InfiniiMax III Series probe amplifier engineered for high-speed digital design validation and signal integrity analysis. Built on indium phosphide (InP) IC process technology with 200 GHz transistor switching speed, it delivers full 16 GHz bandwidth directly to the probe tip with low noise and measurement fidelity. The amplifier's extremely low loading on the Device Under Test (DUT) combined with minimal capacitive loading makes it ideal for demanding probing applications requiring high accuracy and signal preservation. Technical

Specifications Bandwidth & Speed 16 GHz at probe tip Rise time: 27.1 psec Input Range & Common Mode DC attenuation ratio: 6:1 (3:1 with 200 Ω ZIF tip) Input voltage range: 1.6 Vpp (0.8 Vpp with 200 Ω ZIF tip) Input common mode range: ± 12 V at DC to 250 Hz; ± 2.5 V above 250 Hz (± 6 V and ± 1.25 V respectively with 200 Ω ZIF tip) Offset range: ± 16 V for single-ended signal probing Input Impedance DC input resistance: 100 k Ω $\pm 2\%$ differential, 50 k Ω $\pm 2\%$ single-ended AC input resistance (>10 kHz): 1 k Ω differential, 500 Ω single-ended Input capacitance with ZIF probe head: 32 fF differential, 48 fF single-ended

Key Features Full 16 GHz bandwidth delivered to probe tip system noise performance Measured S-parameters loaded for accurate response correction Minimal DUT loading and capacitive coupling Bandwidth upgrade capability within system architecture

Typical Applications High-speed digital circuit characterization Signal integrity validation in advanced designs Differential and single-ended signal measurement On-board and in-circuit probing

Compatibility & Integration The N2800A operates with InfiniiMax III probe heads including the N5445A browser probe, N5439A ZIF probe, N5444A 2.92 mm/3.5 mm/SMA probe, N5441A solder-in probe, and N2848A QuickTip probe. Compatible oscilloscopes include Keysight Infiniium 90000X Series, Infiniium 90000 Q/V/X/Z-series, UXR-series (13–33 GHz), the 86100D sampling oscilloscope, and UXR-series (40–110 GHz) platforms via AutoProbe II or N2852A interface adapter. InfiniiMax I and II probe heads are not compatible with InfiniiMax III amplifiers.

Features & description

From manufacturer datasheet

Features

• Bandwidth: 16 GHz • Rise time: 27.1 ps (OEM family table for N2800A) • Probe system: InfiniiMax III • Dynamic range class: 2.5 Vpp (± 1.25 V) at 5:1; 5.0 Vpp (± 2.50 V) at 10:1 (auto-selected by V/div) • Alternate HD2/HD3 limited ranges cited in family sheets: 1.6 Vpp ± 0.8 V class • Attenuation: 5:1 or 10:1 automatically selected based on volts/division • Compatible scopes: Infiniium 90000X Series 16 GHz models • Head compatibility: InfiniiMax III heads only (not InfiniiMax I/II) • Upgradability: hardware BW upgrade path toward 20/25/30 GHz class amps • Replacement: N7002A 16 GHz InfiniiMax III+ • Process: InP IC / thick-film technology (family)

Applications

• Differential and single-ended probing to 16 GHz • High-density PCB / IC debug with InfiniiMax III heads (ZIF, browser, solder-in) • Bandwidth-matched probing for 16 GHz Infiniium 90000X scopes

N2800A Characteristics / Specifications

PARAMETER	VALUE
Model	N2800A
Manufacturer	Keysight / Agilent
Instrument Type	InfiniiMax III Probe Amplifier
Alias	N2800A; Keysight N2800A; Agilent N2800A
Bandwidth	16 GHz
Rise time	27.1 ps (OEM family table for N2800A)
Dynamic range	1: 2.5 Vpp (± 1.25 V)
Attenuation	5:1 or 10:1 automatically selected based on volts/division
Host	Infiniium 90000X 16 GHz
Head family	InfiniiMax III only
Successor	N7002A Notes Specs from Keysight InfiniiMax III/III+ probing system data sheets. Exact input R/C depends on probe head used—confirm head model and amp option on the unit.
Probe system	InfiniiMax III
Dynamic range class	2.5 Vpp (± 1.25 V) at 5:1; 5.0 Vpp (± 2.50 V) at 10:1 (auto-selected by V/div)
Alternate HD2/HD3 limited ranges cited in family sheets	1.6 Vpp ± 0.8 V class
Compatible scopes	Infiniium 90000X Series 16 GHz models
Head compatibility	InfiniiMax III heads only (not InfiniiMax I/II)
Upgradability	hardware BW upgrade path toward 20/25/30 GHz class amps
Replacement	N7002A 16 GHz InfiniiMax III+
Process	InP IC / thick-film technology (family)

N2800A Specifications

PARAMETER	VALUE
Applications	- Differential and single-ended probing to 16 GHz
Key Features	- Bandwidth: 16 GHz
Technical Specifications	Model: N2800A

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

Specifications

PARAMETER	VALUE
Model	N2800A
Manufacturer	Keysight / Agilent
Instrument Type	InfiniiMax III Probe Amplifier
Alias	N2800A; Keysight N2800A; Agilent N2800A

Bandwidth: 16 GHz

Rise time: 27.1 ps

Dynamic range 5:1: 2.5 Vpp (±1.25 V)

Dynamic range 10:1: 5.0 Vpp (±2.50 V)

Specifications

PARAMETER	VALUE
Attenuation	5:1 or 10:1 auto
Host	Infiniium 90000X 16 GHz
Head family	InfiniiMax III only
Successor	N7002A

Notes

Specs from Keysight InfiniiMax III/III+ probing system data sheets. Exact input R/C depends on probe head used-confirm head model and amp option on the unit.

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 ·
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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.