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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N2807A

HP Agilent Keysight N2807A PrecisionProbe Advanced Kit to 63 GHz The Keysight N2807A PrecisionProbe Advanced Kit includes PrecisionProbe software plus external hardware to characterize and correct cables and probes out to 63 GHz. OEM data sheet 5991-0263EN states that characterization beyond 33 GHz uses the included N2806A calibration pulse generator with sub-7 ps edges, and the kit targets Infiniium 90000 Q/X/A-Series oscilloscopes. High-bandwidth Infiniium channel, cable, and probe S-parameter characterization and loss correction up to 63 GHz. The Keysight N2807A PrecisionProbe Advanced Kit includes PrecisionProbe software plus external hardware to characterize and correct cables and probes out to 63 GHz. OEM data sheet 5991-0263EN states that characterization beyond 33 GHz uses the included N2806A calibration pulse generator with sub-7 ps edges, and the kit targets Infiniium 90000 Q/X/A-Series oscilloscopes. High-bandwidth Infiniium channel, cable, and probe S-parameter characterization and loss correction up to 63 GHz. N2806A calibration pulse generator for edges beyond 33 GHz

**MODEL****Agilent / Keysight
N2807A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N2807A****LISTING**<https://aumictechlabs.com/products/n2807a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N2807A PrecisionProbe Advanced Kit is an oscilloscope accessory that characterizes and corrects probing systems up to 63 GHz. When paired with the N2806A Calibration Pulse Generator, it enables full characterization of cables, switches, and probes

connected to compatible Infiniium oscilloscopes, eliminating measurement variability across multiple probe channels and removing unwanted insertion loss without requiring external test equipment.

Technical Specifications

Characterization Bandwidth: Up to 63 GHz

Operating Temperature: 5 °C to 40 °C

Non-operating Temperature: -40 °C to 65 °C

Operating Humidity: Up to 95% relative humidity (non-condensing) at 40 °C

Non-operating Humidity: Up to 90% relative humidity at 65 °C

Operating Altitude: Up to 3,000 meters

Typical Characterization Time: Under five minutes

Key Features

- Measures and corrects probing frequency response for all probes on compatible Infiniium oscilloscopes
- Characterizes and removes S21 insertion loss of cables, fixtures, and switches without VNA or TDR equipment
- Corrects phase non-linearities and magnitude non-flatness across the probing system
- Creates custom probe transfer functions (V_{out}/V_{in}) and probed system transfer functions (V_{out}/V_{src})
- Generates shareable characterization files in s2p or tf2 format across multiple scopes and channels
- Wizard-guided software setup with analysis charts for result visualization
- Hardware filtering enables fast update rates when integrated with Infiniium Data Accelerator
- Automates loss removal for switches and full correction of probe paths with Infiniimax probes

Typical Applications

- Probe system characterization and correction for high-frequency signal acquisition.
- Cable and fixture loss measurement.
- Multi-probe standardization to eliminate probe-to-probe variability.
- Impedance characterization of probe connections.

Compatibility & Integration

Designed for use with Keysight Infiniium 90000 Q-Series, 90000 X-Series, and 90000A Series oscilloscopes. Includes PrecisionProbe software and N2806A Calibration Pulse Generator. Note: This is an obsolete product.

N2807A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	PrecisionProbe Advanced characterization kit
Maximum Characterization Bandwidth	63 GHz
Baseline PrecisionProbe Bandwidth Without Advanced Edge	33 GHz class
Calibration Pulse Generator Included	N2806A
N2806A Rise Time 10 To 90 Guaranteed	less than 10 ps
N2806A Rise Time 10 To 90 Typical	less than 9 ps
N2806A Fall Time 10 To 90 Guaranteed	less than 8 ps
N2806A Fall Time 10 To 90 Typical	less than 7 ps
N2806A Maximum Repetition Rate	4 GHz class per OEM sheet
High Performance Cable Included	N2812A 2.9 mm 1 m
Ultra High Bandwidth Cable Included	N2814A 1.85 mm 1 m
Software Included	PrecisionProbe software license
Compatible Scope ClassQSeries	DSO/DSA 90000 Q-Series (order path DSOX90000Q-827 or N2807A per sheet)
Compatible Scope ClassXSeries	DSO/DSA 90000 X-Series
Compatible Scope ClassASeries	DSO/DSA 90000A Series
Deskew Fixture Companion Class	N5443A performance verification and deskew fixture (probes)
Series Family	Keysight PrecisionProbe Advanced
Literature	Keysight 5991-0263EN
Kit Hardware Count Pulse Generator	1
Kit Hardware Count N2812A Cable	1
Kit Hardware Count N2814A Cable	1
Included Software License Count	1 PrecisionProbe license
Bandwidth	63 GHz
Rise Time	10 To 90 Guaranteed: less than 10 ps

N2807A Specifications

PARAMETER	VALUE
Applications	High-bandwidth Infiniium channel, cable, and probe S-parameter characterization and loss correction up to 63 GHz.
PrecisionProbe software license included	N2806A calibration pulse generator for edges beyond 33 GHz
Extends characterization from 33 GHz class to 63 GHz	Works with 90000 Q X and A Series Infiniium scopes
Technical Specifications	Instrument Type: PrecisionProbe Advanced characterization kit

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.

performance cables	
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Kit Hardware Count N2814A Cable	1
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Notes	
From Keysight N2807A PrecisionProbe Advanced Kit data sheet 5991-0263EN. Software license terms and exact	

Infiniium firmware prerequisites follow the current Keysight ordering guide for the installed scope.

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

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

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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.