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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U9361M

Agilent Keysight U9361M RCal Receiver Calibrator 10 MHz to 110 GHz The Keysight U9361M is the 110 GHz member of the U9361 RCal family with 1.0 mm male connector. OEM technical overview 3120-1426 lists CW frequency 0.01 to 110 GHz, banded output power and accuracy tables, and USB 3.0 power/control. 110 GHz UXA/PNA receiver calibration at the DUT, correcting waveguide/cable losses, and wideband magnitude/phase flatness with BPSK combs. Banded nominal output power through 110 GHz The Keysight U9361M is the 110 GHz member of the U9361 RCal family with 1.0 mm male connector. OEM technical overview 3120-1426 lists CW frequency 0.01 to 110 GHz, banded output power and accuracy tables, and USB 3.0 power/control. 110 GHz UXA/PNA receiver calibration at the DUT, correcting waveguide/cable losses, and wideband magnitude/phase flatness with BPSK combs. Banded nominal output power through 110 GHz Factory cal data for absolute power transfer

**MODEL****Agilent / Keysight
U9361M****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****U9361M****LISTING**<https://aumictechlabs.com/products/u9361m-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight U9361M RCal Receiver Calibrator is a USB-powered calibration instrument that corrects systematic errors in high-frequency signal analysis by moving the measurement reference plane to the device under test output. Operating from 10 MHz to 110 GHz, it enables complex magnitude and phase corrections, path loss compensation, and absolute power

accuracy transfer to signal analyzers. The calibrator employs tunable BPSK comb modulation to improve receive test system accuracy by an order of magnitude.

Technical Specifications

Frequency and Performance
Frequency range: 10 MHz to 110 GHz
Modulation: Tunable BPSK comb
IF flatness corrections: Up to 5 GHz
IF bandwidths: Frequency reference: Internal 100 MHz clock or external 10 MHz reference input
Calibration accuracy: ± 10 ppm nominal (initial)
Aging rate: $< \pm 1$ ppm/year nominal
Power and Connectivity
Supply: +5V per USB 3.0 specifications
Current draw: < 900 mA per USB 3.0 specifications
RF output connector: 1mm
Control interface: USB
Environmental
Operating temperature: 0 °C to 55 °C
Storage temperature: -40 °C to 70 °C
Maximum humidity: 95% RH up to 40 °C, decreasing linearly to 45% RH at 55 °C (non-condensing)
Operating altitude: Up to 4600 meters (15,000 feet)
Environmental compliance: IEC 60068-2 and similar to MIL-PRF-28800F Class 3

Key Features

Palm-size compact form factor for laboratory and field deployment
Corrects frequency response and system path losses
Transfers absolute power accuracy (dBm) to signal analyzers
Ultra-stable, repeatable performance with precision factory calibration
Supports external 10 MHz reference input for enhanced accuracy

Typical Applications

Receiver calibration in millimeter-wave test systems
High-frequency transmitter characterization
Cable and fixture loss correction at measurement reference planes
Multiport network analyzer receiver validation

U9361M Characteristics / Specifications

PARAMETER	VALUE
Model	U9361M
Instrument Type	RCal receiver calibrator
CW Frequency Range	0.01 to 110 GHz
CW Frequency Resolution Nominal	1 Hz
Connector Type	1.0 mm male
Output Power 0.01 to 1.875 GHz Nominal	greater than minus 10 dBm
Output Power 50 to 67 GHz Nominal	greater than minus 20 dBm
Output Power 67 to 80 GHz Nominal	greater than minus 23 dBm
Output Power 80 to 100 GHz Nominal	greater than minus 25 dBm
Output Power 100 to 110 GHz Nominal	greater than minus 28 dBm
CW Power Accuracy 0.01 to 26.5 GHz Nominal	plus or minus 0.15 dB
CW Power Accuracy 26.5 to 50 GHz Nominal	plus or minus 0.25 dB
CW Power Accuracy 50 to 67 GHz Nominal	plus or minus 0.45 dB
CW Power Accuracy 75 to 110 GHz Nominal	plus or minus 0.55 dB
Phase Noise Nominal	minus 105 dBc/Hz at 10 GHz 100 kHz offset
Modulation Type	BPSK
Modulation Frequency Range	100 kHz to 100 MHz
USB Type	USB 3.0
USB Current	less than 900 mA
Net Weight	0.34 kg
Dimensions Male	129.1 mmLby 77.5 mmWby 37.0 mmHCalibration Cycle Recommended: 1 year
External Reference Frequency	10 MHz

PARAMETER

VALUE

External Reference Amplitude Nominal

minus 5 to plus 10 dBm

Series Family

Keysight U9361 RCal

U9361M Specifications

PARAMETER	VALUE
Applications	110 GHz UXA/PNA receiver calibration at the DUT, correcting waveguide/cable losses, and wideband magnitude/phase flatness with BPSK combs.
Key Features	110 GHz palm-size USB RCal module
BPSK comb for magnitude and phase	External 10 MHz reference input
Technical Specifications	Model: U9361M

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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Series Family	Keysight U9361 RCal

Notes

Numeric rows from Keysight U9361 RCal technical overview 3120-1426.EN U9361M columns. Harmonic power footnotes above 50 GHz are OEM nominal third-harmonic notes.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.