

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 3, 2026

KEYSIGHT

Keysight (Agilent) U9391M Comb Generator, 10 MHz to 110 GHz

Keysight (Agilent) U9391M Comb Generator, 10 MHz to 110 GHz The Keysight U9391M is a USB-controlled comb generator in the U9391C/F/G/M family developed for precision phase calibration of PNA-X nonlinear vector network analyzer (NVNA) measurements referenced to NIST standards. It also supports phase and delay calibration of frequency converters on PNA/PNA-X instruments without reference or calibration mixers. The U9391M extends the family output coverage to 10 MHz through 110 GHz. NVNA phase reference and phase calibration; SMC+Phase mixer/converter calibration; wideband amplitude/phase calibration of signal analyzers and oscilloscopes with Keysight Signal Optimizer (K3101A) workflows. The Keysight U9391M is a USB-controlled comb generator in the U9391C/F/G/M family developed for precision phase calibration of PNA-X nonlinear vector network analyzer (NVNA) measurements referenced to NIST standards. It also supports phase and delay calibration of frequency converters on PNA/PNA-X instruments without reference or calibration mixers. The U9391M extends the family output coverage to 10 MHz through 110 GHz. NVNA phase reference and phase calibration; SMC+Phase mixer/converter calibration; wideband amplitude/phase calibration of signal analyzers and oscilloscopes with Keysight Signal Optimizer (K3101A) workflows.

No photo

MODEL

Keysight U9391M

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

U9391M

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- Output frequency coverage: 10 MHz to 110 GHz (U9391M)
- Family technology: InP MMIC comb generation with USB control
- Minimum tone spacing: 10 MHz (family)
- NIST-traceable amplitude and phase characterization stored in module memory (family)
- Trigger output for synchronization with pulse repetition frequency (family)
- Requires separate DC power supply; USB control from PNA/PNA-X / software

U9391M Characteristics / Specifications

PARAMETER	VALUE
Model	U9391M
Manufacturer	Keysight Technologies (Agilent heritage)
Instrument Type	Comb Generator
Alias	U9391M; Agilent U9391M; Keysight U9391 M Frequency
Output Frequency Range	10 MHz to 110 GHz
Minimum Tone Spacing	10 MHz (U9391 family)
Operation below 10 MHz	Possible with low phase-noise drive but not guaranteed (family note) Family Context (C/F/G siblings for reference; M is the 110 GHz member)
U9391C	10 MHz to 26.5 GHz
U9391F	10 MHz to 50 GHz
U9391G	10 MHz to 67 GHz
U9391M	10 MHz to 110 GHz Control and Power
Control Interface	USB
Drive Power	Separate DC power supply via banana-plug cable (see U9391C/F/G/M technical overview for supply limits)
NVNA	Typically two comb generators (phase reference + phase calibration)
Characterization	Amplitude and phase data stored in module memory; NIST-traceable characterization process (family) Operational Notes Do not substitute U9391C/F/G catalog photos or specs for U9391M frequency coverage. Detailed input power / PRF / flatness tables for theMvariant are sparsely published compared with C/F/G—confirm connector option (e.g., female/male output) and warranted input drive on the U9391M datasheet/technical overview and the unit's calibration data.
Output frequency coverage	10 MHz to 110 GHz (U9391M)
Family technology	InP MMIC comb generation with USB control

U9391M Specifications

PARAMETER	VALUE
Key Features	- Output frequency coverage: 10 MHz to 110 GHz (U9391M)
Technical Specifications	Model: U9391M
Frequency	Output Frequency Range: 10 MHz to 110 GHz
Calibration Use	NVNA: Typically two comb generators (phase reference + phase calibration)

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	U9391M
Manufacturer	Keysight Technologies (Agilent heritage)
Instrument Type	Comb Generator
Alias	U9391M; Agilent U9391M; Keysight U9391 M

Frequency

Frequency

PARAMETER	VALUE
Output Frequency Range	10 MHz to 110 GHz
Minimum Tone Spacing	10 MHz (U9391 family)
Operation below 10 MHz	Possible with low phase-noise drive but not guaranteed (family note)

Family Context (C/F/G siblings for reference; M is the 110 GHz member)

Specifications

PARAMETER	VALUE
U9391C	10 MHz to 26.5 GHz
U9391F	10 MHz to 50 GHz
U9391G	10 MHz to 67 GHz
U9391M	10 MHz to 110 GHz

Control and Power

Control Interface: USB

Drive Power: Separate DC power supply via banana-plug cable (see U9391C/F/G/M technical overview for supply limits)

Sine-to-Square Converter: U9391-60009 recommended when driving from 10 MHz reference sine below ~100 MHz for optimum operation (family)

Calibration Use

NVNA: Typically two comb generators (phase reference + phase calibration)

SMC+Phase: Comb used for relative phase and absolute group delay calibration of converter setups

Characterization: Amplitude and phase data stored in module memory; NIST-traceable characterization process (family)

Operational Notes

Do not substitute U9391C/F/G catalog photos or specs for U9391M frequency coverage. Detailed input power / PRF / flatness tables for theMvariant are sparsely published compared with C/F/G-confirm connector option

(e.g., female/male output) and warranted input drive on the U9391M datasheet/technical overview and the unit's calibration data.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

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

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 3, 2026

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