


Aumictech

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

KEITHLEY

Keithley 2910 400MHz – 2.5GHz Signal Generator Vector

Keithley 2910 RF Vector Signal Generator 400 MHz to 2.5 GHz The 2910 is a half-rack 3U RF vector signal generator covering 400 MHz to 2.5 GHz with 0.1 Hz setting resolution. Frequency and amplitude settle in less than 1.6 ms (unmodulated) or 1.8 ms (modulated). Internal modulation bandwidth is 40 MHz; external I/Q provides ≥ 200 MHz. Built-in GSM/GPRS/EDGE, cdmaOne/cdma2000, and WCDMA waveforms plus analog CW/AM/FM/PM/noise/two-tone/pulse are listed. Optional 256 MB (64 megasample) ARB. Ethernet, USB, GPIB, LXI Class C. The 2910 is a half-rack 3U RF vector signal generator covering 400 MHz to 2.5 GHz with 0.1 Hz setting resolution. Frequency and amplitude settle in less than 1.6 ms (unmodulated) or 1.8 ms (modulated). Internal modulation bandwidth is 40 MHz; external I/Q provides ≥ 200 MHz. Built-in GSM/GPRS/EDGE, cdmaOne/cdma2000, and WCDMA waveforms plus analog CW/AM/FM/PM/noise/two-tone/pulse are listed. Optional 256 MB (64 megasample) ARB. Ethernet, USB, GPIB, LXI Class C. Mobile handset production; infrastructure and RFIC test; 802.11b/g and Bluetooth ISM-band work; MATLAB/Mathcad I/Q download via ARB option; education and R&D vector source paired with 2810 VSA.



MODEL

Keithley 2910

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

2910

LISTING

<https://aumictechlabs.com/products/2910-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley 2910 RF Vector Signal Generator delivers flexible signal synthesis across 400 MHz to 2.5 GHz with over-range capability to 2.7 GHz. Purpose-built for wireless device characterization, RFICs, and production test environments, this half-rack instrument combines rapid frequency and amplitude switching with modulation bandwidth up to 40 MHz (internal) or 200 MHz (external I/Q). Output spans -120 dBm to +13 dBm in CW mode with ± 0.3 dB typical accuracy and 0.01 dB resolution. Optional digital modulation (ASK, FSK, PSK, QAM) and integrated waveforms for GSM, GPRS, EDGE, W-CDMA, cdmaOne, cdma2000, and GPS support accelerate R&D cycles and reduce test overhead in demanding RF environments.

Technical Specifications

Frequency & Timing
Frequency range: 400 MHz to 2.5 GHz (over-range to 2.7 GHz)
Frequency resolution: 100.0 mHz
Frequency switching: <1.3 ms typical (list mode)
Reference aging: ≤ 1 ppm/year
External reference input: 1 to 20 MHz
Reference output: 10 MHz $\pm$ reference accuracy
Output Power
CW output: -120 dBm to +13 dBm
GSM/EDGE: -120 dBm to +6 dBm
cdma2000: -120 dBm to +3 dBm
WCDMA: -120 dBm to +4 dBm
Amplitude resolution: 0.01 dB
Amplitude switching: <1.6 ms
Accuracy: ± 0.3 dB typical (+13 dBm to -110 dBm)

Modulation & Waveforms
Internal modulation bandwidth: 40 MHz
External I/Q modulation: ≥ 200 MHz
Analog: AM, FM, phase, pulse, AWG noise, 2-tone
Digital (optional): ASK, FSK, PSK, QAM
ARB memory: 64 mega-samples (V2.0)
Waveform switching: 3 ms nominal (SCPI)
Built-in standards: GSM, GPRS, EDGE, W-CDMA, cdmaOne, cdma2000, GPS

Spectral Performance
Phase noise: -120 dBc/Hz @ 20 kHz offset (1 GHz); -126 dBc/Hz (2 GHz)

Interfaces & Connectivity
IEEE-488.1/488.2, LAN (10/100Base-T, RJ45, LXI Class-C), USB

Physical Dimensions: 3U (133 mm H) $\times$ half-rack (213 mm W) $\times$ 464 mm D
Weight: 7.82 kg
Cooling: Forced air
Operating temperature: 18°C to 28°C

Key Features
Power calibration table compensates RF cable losses to ± 0.3 dB
Fast amplitude and frequency switching minimize test cycle time
Optional 64-sample ARB with instant waveform sequencing
2 MHz noise bandwidth supports immunity assessment

Typical Applications
Wireless device and RFIC test and characterization
GSM/CDMA/WCDMA transceiver validation
GPS receiver simulation and validation
Production RF acceptance testing

Compatibility & Integration
GPIB, Ethernet (LXI), and USB connectivity enable integration into automated test racks and laboratory environments. Modular options include digital modulation (Model 2910-DIG) and GPS simulation (Model 2910-GPS).

Features & description

From manufacturer datasheet

Features

- Software-defined radio architecture with firmware personalities

2910 Characteristics / Specifications

PARAMETER	VALUE
Model	2910
Manufacturer	Keithley Instruments
Instrument Type	RF vector signal generator
Alias	2910; 2910-F; 2910-R; 2910-FRK; 2910-RRK
Frequency range	400 MHz to 2.5 GHz
Frequency setting resolution	0.1 Hz
Frequency switching unmodulated	≤ 1.6 ms to within 0.1 ppm of final
Frequency switching modulated	≤ 1.8 ms
Frequency switching characteristic	≤ 3.0 ms
Level accuracy typical	less than ± 0.3 dB
Level accuracy specified class	less than ± 0.5 dB
Level linearity class	less than 0.05 dB
Internal modulation bandwidth	40 MHz
External IQ modulation bandwidth	≥ 200 MHz
ARB memory option	256 MB, 64 megasamples
Noise bandwidth analog	2 MHz class for noise immunity checks
Digital formats built in	GSM, GPRS, EDGE, WCDMA, cdmaOne, cdma2000
Analog formats	CW, two-tone CW, AM, FM, phase modulation, pulse, noise
Interfaces	Ethernet, USB, GPIB
LXI	ClassC Form: half rack, 3U
RF connector location	front or rear per SKU
Rack SKU	FRK/RRK include rack kit, exclude bumpers
Bench SKU	F/R include bumpers and handle
Companion analyzer	Model 2810
Warranty class	3 year standard on product literature Notes Specs from Keithley 2910 RF vector signal generator data sheet. Performance outside 400 MHz

PARAMETER	VALUE
	to 2.5 GHz is not specified. Confirm ARB and cellular personality options on the installed unit. No prices listed.
Options	ARB, GSM, CDMA2000, WCDMA, low phase noise
Bandwidth	is 40 MHz; external I/Q provides ≥ 200 MHz. Built-in GSM/GPRS/EDGE, cdmaOne/cdma2000, and WCDMA waveforms plus analog CW/AM/FM/PM/noise/two-tone/pulse are listed. Optional 256 MB (64 megasample) ARB. Ethernet, USB, GPIB, LXI Class C.

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	2910
Manufacturer	Keithley Instruments
Instrument Type	RF vector signal generator
Specifications	
PARAMETER	VALUE
Alias	2910; 2910-F; 2910-R; 2910-FRK; 2910-RRK
Frequency range	400 MHz to 2.5 GHz
Frequency setting resolution	0.1 Hz
Specifications	
PARAMETER	VALUE
Frequency switching unmodulated	≤1.6 ms to within 0.1 ppm of final
Frequency switching modulated	≤1.8 ms
Frequency switching characteristic	≤3.0 ms
Specifications	
PARAMETER	VALUE
Level accuracy typical	less than ±0.3 dB
Level accuracy specified class	less than ±0.5 dB
Level linearity class	less than 0.05 dB
Specifications	
PARAMETER	VALUE
Internal modulation bandwidth	40 MHz
External IQ modulation bandwidth	≥200 MHz
ARB memory option	256 MB, 64 megasamples

Specifications

PARAMETER	VALUE
Noise bandwidth analog	2 MHz class for noise immunity checks
Digital formats built in	GSM, GPRS, EDGE, WCDMA, cdmaOne, cdma2000
Analog formats	CW, two-tone CW, AM, FM, phase modulation, pulse, noise

Specifications

PARAMETER	VALUE
Interfaces	Ethernet, USB, GPIB
LXI	ClassC Form: half rack, 3U
RF connector location	front or rear per SKU

Specifications

PARAMETER	VALUE
Rack SKU	FRK/RRK include rack kit, exclude bumpers
Bench SKU	F/R include bumpers and handle
Companion analyzer	Model 2810

Option ARB: 2910-ARB

Option GSM: 2910-GSM

Option LPN: 2910-LPN

Warranty class: 3 year standard on product literature

Notes

Specs from Keithley 2910 RF vector signal generator data sheet. Performance outside 400 MHz to 2.5 GHz is not specified. Confirm ARB and cellular personality options on the installed unit. No prices listed.

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
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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