

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N1911A

The Keysight N1911A (formerly Agilent) is a P-Series single-channel power meter designed for high-performance RF and microwave power measurements. When paired with N192XA wideband power sensors, it provides a 30 MHz video bandwidth and 100 MSa/s continuous real-time sampling, enabling precise peak, average, and peak-to-average ratio measurements as well as advanced time-gated analysis (rise time, fall time, pulse width). The N1911A is also backward compatible with legacy 8480 and E-Series sensors, offering broad frequency coverage from 9 kHz to 110 GHz and a wide dynamic range from -70 to +44 dBm.

SPECIFICATIONS

General

Interfaces	USB, LAN, GPIB
Display	High-resolution color LCD

Physical

Operating Temperature	0 to 55 °C
Dimensions (W×H×D)	212.6 x 88.5 x 348.3 mm
Weight	3.5 kg

Basic Characteristics

Number of Channels	1
Supported Sensor Families	N192xA, 8480 Series, E-Series (except E932x)
Frequency Range	9 kHz to 110 GHz (sensor dependent)
Wideband Sensor Frequency Range	50 MHz to 40 GHz (using N192XA sensors)
Power Range	-70 to +44 dBm (sensor dependent)
Maximum Video Bandwidth	30 MHz
Sampling Rate	100 MSa/s (single shot real time)

Measurement Accuracy and Performance

Key Measurements	Peak, Average, Peak-to-Average Ratio, Rise Time, Fall Time, Pulse Width
Internal Zero and Calibration	Yes (zero and calibrate while connected to DUT)

Reference Oscillator

Reference Oscillator Frequency	50 MHz
Reference Oscillator Power	1 mW (0 dBm)

Display and Analysis

Statistical Analysis / CCDF	High Speed Complementary Cumulative Distribution Function (CCDF)
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Environmental

Storage Temperature	-40 to 70 °C
Operating Altitude	Up to 3000 m
Operating Humidity	Up to 95% RH at 40 °C (non-condensing)

Performance

Measurement Display Resolution	Logarithmic: 1.0, 0.1, 0.01, 0.001 dB; Linear: 1 to 4 significant digits
Maximum Measurement Speed	1500 readings/s (fast mode)
System Rise Time	≤ 13 ns (with P-Series N192xA sensors)
Video Bandwidth Settings	Off, Low, Medium, High
Time-Gated Measurements	Up to 4 independent gates per channel

Power

Power Requirements (AC)	100 to 240 VAC (50/60 Hz); 100 to 120 VAC (400 Hz)
Maximum Power Consumption	50 VA max

Compliance

LXI Compliance	LXI Class C
EMC Compliance	IEC/EN 61326-1, CISPR 11 Group 1 Class A
Safety Compliance	IEC/EN 61010-1, CSA C22.2 No. 61010-1

TECHNOLOGY

RF/Microwave

APPLICATIONS

Power Measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.