

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N4433A

The Keysight N4433A is a 4-port Electronic Calibration (ECal) module operating from 300 kHz to 20 GHz. Designed for fast, highly accurate, and repeatable calibrations of vector network analyzers (VNAs), it features 3.5 mm RF connectors and is controlled directly via a USB connection, minimizing the risk of operator error and connector wear compared to manual calibration kits.

SPECIFICATIONS

General

Interfaces	USB 2.0 (Type-B port)
Display	None (LED status indicators)
Warm-up Time	20 minutes

Physical

Power Supply	USB powered (+5 VDC)
Operating Temperature	15 °C to 40 °C °C
Dimensions (W×H×D)	121.9 mm × 111.4 mm × 41.2 mm mm
Weight	1.6 kg kg
Recommended Connector Torque	0.9 N-m (8 in-lb)

RF, Electrical & Calibration Performance

Frequency Range	300 kHz to 20 GHz
Nominal Impedance	50 Ω
Number of Ports	4
Maximum Input Power	+20 dBm

Connectivity & Host Interfaces

Host Interface Connection	USB (direct control from VNA or via external PC)
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Software & Programming

Supported Network Analyzers	Keysight PNA Series, ENA Series
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Environmental Specifications

Storage Temperature Range	-40 °C to +70 °C
Operating Humidity	Up to 95% RH (non-condensing)

Compliance & Certifications

Recommended Calibration Interval	1 year
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Connector Options

Option 010 Configuration	Four female 3.5 mm connectors
Option 020 Configuration	Four male 3.5 mm connectors
Option 120 Configuration	Two male and two female 3.5 mm connectors

Port Characteristics

Connector Type	3.5 mm
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Electrical

Maximum DC Voltage	0 V
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Features

Calibration Data Storage	Internal non-volatile EEPROM
Temperature Compensation	Internal temperature sensor with automatic compensation

Environmental

Performance Temperature Range	+20 °C to +30 °C
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TECHNOLOGY

Electronic Calibration (ECal)

APPLICATIONS

Vector Network Analyzer Calibration

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