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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N4432D

Agilent Keysight N4432D 4-port ECal Module DC/300 kHz to 18 GHz The Keysight N4432D is a 4-port microwave ECal module. OEM ECal technical overview 5963-3743 lists DC/300 kHz to 18 GHz with Type-N 50 ohm or 3.5 mm (or mixed) connectors, 0DC or 003 low-edge codes, and USB control from Keysight VNAs. Full four-port calibration of 18 GHz VNAs with Type-N or 3.5 mm ports, including mixed-gender fixtures. 0DC extends the low edge to DC; 003 starts at 300 kHz The Keysight N4432D is a 4-port microwave ECal module. OEM ECal technical overview 5963-3743 lists DC/300 kHz to 18 GHz with Type-N 50 ohm or 3.5 mm (or mixed) connectors, 0DC or 003 low-edge codes, and USB control from Keysight VNAs. Full four-port calibration of 18 GHz VNAs with Type-N or 3.5 mm ports, including mixed-gender fixtures. 0DC extends the low edge to DC; 003 starts at 300 kHz Type-N 50 ohm and 3.5 mm mixed connectors

**MODEL****Agilent / Keysight
N4432D****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N4432D****LISTING**<https://aumictechlabs.com/products/n4432d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N4432D is a 4-port RF electronic calibration module engineered for fast, accurate calibration of vector network analyzers. This ECal module eliminates the need for mechanical calibration kits, delivering full 4-port calibration with fewer connections and reduced connector wear. USB connectivity to Keysight VNAs enables direct firmware control and automatic module

recognition, minimizing operator error and extending the lifetime of test ports and standards.

Technical Specifications

Frequency Range Standard: 300 kHz to 18 GHz Option 0DC: DC to 18 GHz

Ports and Connectors 4-port configuration Type-N and 3.5 mm connector support Available in female-female, male-male, and female-male connector pairs

Option 020: Type-N 50 Ω female connectors on all four ports

Directivity (Option 020: Type-N 50 Ω Female) DC to 10 MHz: 50 dB 300 kHz to 10 MHz: 45 dB 10 MHz to 5 GHz: 50 dB 5 to 9 GHz: 47 dB 9 to 13.5 GHz: 41 dB 13.5 to 18 GHz: 40 dB

Operating Conditions Temperature: +20 °C to +26 °C Humidity: Up to 95% RH at 40 °C, non-condensing

Key Features Significantly faster calibration than traditional mechanical kits Direct USB interface with automatic firmware recognition Front-panel control from host analyzer reduces operator-induced errors Mixed Type-N and 3.5 mm connector options accommodate non-insertable device connectors DC-capable option (0DC) enables broadband modeling and time-domain analysis Minimal physical contact with test ports reduces maintenance costs

Typical Applications Automated vector network analyzer calibration Broadband device characterization (with Option 0DC) Signal integrity and time-domain measurements Production test environments requiring high-speed calibration cycles

Compatibility & Integration Designed for Keysight PNA, ENA, and PXI VNA series analyzers. Compatible with other Keysight vector network analyzers supporting ECal modules. Supports devices with Type-N and 3.5 mm connectors across all frequency bands from 300 kHz to 18 GHz.

N4432D Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Four port electronic calibration module
Series Family	Keysight N443xD 4-port ECal
Port Count	4
Control Interface	USB 2.0; High Speed 480 Mbit/s and Full Speed 12 Mbit/s; any USB 2.0 hub
Operating Temperature	plus 20 C to plus 26 C
Operating Humidity	up to 95 percent RH at 40 C, non-condensing
Typical Maximum Input Power	minus 7 dBm (calibration degrades above this)
Typical Maximum Dc Level	plus or minus 3 V
Typical Damage Level	plus 20 dBm
Mixed Connectors	per-port gender and family codes 101-408 class
Literature	Keysight ECal modules technical overview 5963-3743
Supported Analyzers	PNA, ENA, PXI VNA (N4433D not on some FieldFox paths)
Frequency With ODC	DC to 18 GHz
Frequency With 0	300 kHz to 18 GHz
Code 020 Connectors	four Type-N 50 ohm female
Mixed 3.5 Mm Female Codes	101 201 301 401
Mixed TypeNFemale Codes	103 203 303 403
Directivity ODC Dc To 10 MHz	50 dB
Directivity 003 300 kHz To 10 MHz	45 dB
Directivity 10 MHz To 5 GHz	50 dB
Directivity 5 To 9 GHz	47 dB
Directivity 9 To 13.5 GHz	41 dB
Directivity 13.5 To 18 GHz	40 dB
Source Match ODC Dc To 10 MHz	41 dB
Source Match 003 300 kHz To 10 MHz	35 dB

PARAMETER	VALUE
Source Match 10 MHz To 5 GHz	41 dB
Source Match 5 To 9 GHz	37 dB
Source Match 9 To 13.5 GHz	34 dB
Source Match 13.5 To 18 GHz	34 dB
Reflection Tracking 10 MHz To 5 GHz	plus or minus 0.06 dB
Reflection Tracking 13.5 To 18 GHz	plus or minus 0.14 dB
Zero Dc Availability	0DC available on N4432D/N4433D
Humidity	up to 95 percent RH at 40 C, non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 20 C to plus 26 C
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Typical Maximum Input Power	minus 7 dBm (calibration degrades above this)
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PARAMETER	VALUE
Source Match 9 To 13.5 GHz	34 dB
Source Match 13.5 To 18 GHz	34 dB
Reflection Tracking 10 MHz To 5 GHz	plus or minus 0.06 dB
Reflection Tracking 13.5 To 18 GHz	plus or minus 0.14 dB
Zero Dc Availability	0DC available on N4432D/N4433D Notes Frequency, connector, and residual-error rows from Keysight ECal technical overview 5963-3743 N4432D code 020 Type-N table. Residual errors apply when applied power does not exceed minus 7 dBm.

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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Specifications

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Notes
Frequency, connector, and residual-error rows from Keysight ECal technical overview 5963-3743 N4432D code 020 Type-N table. Residual errors apply when applied power does not exceed minus 7 dBm.

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

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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.