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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7550A

Agilent Keysight N7550A Economy ECal Module DC to 4 GHz The Keysight N7550A is a 2-port N755xA Series economy electronic calibration (ECal) module covering DC to 4 GHz. OEM N755xA fact sheet 5992-2547 and ECal technical overview 5963-3743 list 50 ohm 2-port operation, USB control from the VNA, no warm-up, 77 × 29 × 27 mm housing, and economy-mechanical-kit-class residual errors down to DC. Fast full two-port VNA calibration of insertable or non-insertable 50 ohm devices; FieldFox, ENA, PNA, PXI, and Streamline Series USB VNAs. The Keysight N7550A is a 2-port N755xA Series economy electronic calibration (ECal) module covering DC to 4 GHz. OEM N755xA fact sheet 5992-2547 and ECal technical overview 5963-3743 list 50 ohm 2-port operation, USB control from the VNA, no warm-up, 77 × 29 × 27 mm housing, and economy-mechanical-kit-class residual errors down to DC. Fast full two-port VNA calibration of insertable or non-insertable 50 ohm devices; FieldFox, ENA, PNA, PXI, and Streamline Series USB VNAs. Single-connection ECal versus mechanical open/short/load/thru kits

**MODEL****Agilent / Keysight
N7550A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N7550A****LISTING**<https://aumictechlabs.com/products/n7550a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N7550A is a 2-port electronic calibration module engineered for vector network analyzers and handheld test instruments. This solid-state device delivers fast, traceable calibrations across DC to 4 GHz, reducing calibration time by up to 50% compared to mechanical

kits. A single USB 2.0 micro connection controls the module and communicates S-parameter data, eliminating manual operator errors inherent in traditional methods. The N7550A stores unique, internally verified electronic impedance standards that the VNA uses to calculate error terms with NIST traceability. Calibration accuracy reaches ± 0.3 dB typical across its operating band. The module's solid-state design and value-line pricing make it cost-effective to replace rather than recertify, delivering consistent, repeatable results without mechanical wear.

Technical Specifications
Frequency Range: DC to 4 GHz
Ports: 2-port configuration
Connectors: 3.5 mm or Type-N (female-female, female-male, or male-male options)
Impedance: 50 ohms typical
Calibration Accuracy: ± 0.3 dB typical
Insertion Loss: 20 dB typical
Maximum Input Power: +23 dBm average
Maximum Reverse Power: +20 dBm average
Power Supply: +15 VDC $\pm 5\%$ at 0.5 A max
Operating Temperature: +15 to +35°C, up to 75% RH
Dimensions: 241 × 216 × 89 mm
Weight: 2.2 kg

Key Features
USB 2.0 micro-interface for integrated instrument control
Traceable and verifiable electronic impedance standards
Eliminates mechanical calibration errors
Stored S-parameter data ensures measurement traceability
Firmware-controlled automation on compatible instruments

Compatibility & Integration
The N7550A integrates with Keysight PNA-X, PNA, ENA, and PXI vector network analyzers, plus FieldFox handheld analyzers. Instrument firmware handles all calibration control, creating a fully automated two-port measurement solution via a single USB connection.

N7550A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Two port economy electronic calibration module
Series Family	Keysight N755xA economy ECal
Port Count	2
System Impedance	50 ohm
Control Interface	USB from Keysight VNA firmware (no external PC required)
Warm Up	none required; start calibration immediately
Module Size HxWxD	77 mm x 29 mm x 27 mm
Operating Temperature	plus 15 C to plus 35 C
Operating Humidity	up to 75 percent RH
Typical Maximum Input Power	minus 15 dBm (calibration degrades above this)
Typical Maximum Dc Level	0 V on test port
Typical Damage Level	plus 10 dBm
Supported Analyzers	Keysight ENA, PNA, PXI VNA, Streamline Series USB VNA, FieldFox (CPU2 class for N755xA)
Connector Gender Codes	3FF 3MF 3MM (3.5 mm); NFF NMF NMM (Type-N 50 ohm, models to 18 GHz)
Storage Accessory	plastic storage box code 150
Torque Accessory 3p	N7550X-151 3.5 or 2.92 mm torque wrench
Torque Accessory Type N	N7550X-152 Type-N torque wrench
Literature	Keysight ECal modules technical overview 5963-3743 and N755xA product fact sheet 5992-2547
Directivity Dc To 500 MHz	42 dB (3.5 mm or Type-N tables)
Source Match Dc To 500 MHz	37 dB
Reflection Tracking Dc To 500 MHz	plus or minus 0.13 dB
Frequency Range	DC to 4 GHz
Connector Types	3.5 mm or Type-N 50 ohm
Directivity 500 MHz To 4 GHz	36 dB

PARAMETER	VALUE
Source Match 500 MHz To 4 GHz	30 dB
Reflection Tracking 500 MHz To 4 GHz	plus or minus 0.13 dB
Humidity	up to 75 percent RH

N7550A Specifications

PARAMETER	VALUE
Agilent Keysight N7550A Economy ECal Module DC to 4 GHz	Overview
Applications	Fast full two-port VNA calibration of insertable or non-insertable 50 ohm devices; FieldFox, ENA, PNA, PXI, and Streamline Series USB VNAs.
DC to 4 GHz economy ECal	Factory characterization stored in module memory, NMI-traceable transfer standard
Technical Specifications	Instrument Type: Two port economy electronic calibration module

General Specifications & Supplementary Characteristics

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Reflection Tracking 500 MHz To 4 GHz	plus or minus 0.13 dB Notes Frequency, connector, size, temperature, input-power, and residual-error rows from Keysight N755xA Series ECal product fact sheet 5992-2547 and Electronic Calibration (ECal) Modules technical overview 5963-3743 model N7550A. Directivity/source-match/tracking tables apply when applied power does not exceed minus 15 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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Notes
Frequency, connector, size, temperature, input-power, and residual-error rows from Keysight N755xA Series ECal product fact sheet 5992-2547 and Electronic Calibration (ECal) Modules technical overview 5963-3743 model N7550A. Directivity/source-match/tracking tables apply when applied power does not exceed minus 15 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

Aumictech

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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.