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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight N7551A

Agilent Keysight N7551A Economy ECal Module DC to 6.5 GHz The Keysight N7551A is a 2-port N755xA Series economy electronic calibration (ECal) module covering DC to 6.5 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 N7551A is a 2-port N755xA Series economy electronic calibration (ECal) module covering DC to 6.5 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
N7551A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****N7551A****LISTING**<https://aumictechlabs.com/products/n7551a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight N7551A is a 2-port electronic calibration module engineered for rapid VNA calibration across DC to 6.5 GHz. This value-line ECal solution replaces mechanical kits with a single-connection design that cuts calibration time by up to 50%. The module communicates with

supported analyzers via USB 2.0 micro-interface, with firmware controlling all calibration routines. Available in Type-N 50 Ω or 3.5 mm connectors in multiple gender configurations (female/male/mixed pairs), the N7551A delivers economy mechanical kit performance in a compact, lightweight form factor. It integrates directly with Keysight PNA-X, PNA, ENA, and PXI series instruments, plus FieldFox handheld analyzers, making it ideal for production environments requiring frequent, traceable calibration.

Technical Specifications
Frequency Range: DC to 6.5 GHz
Ports: 2
Connector Options: Type-N 50 Ω or 3.5 mm
Connector Configurations: Type-N: NFF, NMM, NMF (female/male/mixed) - 3.5 mm: 3FF, 3MM, 3MF (female/male/mixed)
Data Interface: USB 2.0 microKey

Features
Single-connection calibration design
Up to 50% faster calibration versus mechanical kits
Zero warm-up wait time
Fully traceable electronic standards
Compact, lightweight form factor

Typical Applications
High-volume PA/FEM manufacturing
Massive MIMO testing
High-speed digital interconnects

Compatibility & Integration
Supported instruments: Keysight PNA-X, PNA, ENA, PXI series, and FieldFox handheld analyzers. Firmware-controlled operation via USB 2.0 eliminates manual calibration procedures.

N7551A 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 6.5 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
Directivity 4 To 6.5 GHz	36 dB
Source Match 4 To 6.5 GHz	30 dB
Reflection Tracking 4 To 6.5 GHz	plus or minus 0.18 dB
Humidity	up to 75 percent RH

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	plus 15 C to plus 35 C
Operating Temperature	plus 15 C to plus 35 C
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Connector Types	3.5 mm or Type-N 50 ohm
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Source Match 500 MHz To 4 GHz	30 dB
Reflection Tracking 500 MHz To 4 GHz	plus or minus 0.13 dB
Directivity 4 To 6.5 GHz	36 dB
Source Match 4 To 6.5 GHz	30 dB

PARAMETER

VALUE

Reflection Tracking 4 To 6.5 GHz

plus or minus 0.18 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 N7551A. 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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PARAMETER	VALUE
Reflection Tracking 500 MHz To 4 GHz	plus or minus 0.13 dB
Directivity 4 To 6.5 GHz	36 dB
Source Match 4 To 6.5 GHz	30 dB
Reflection Tracking 4 To 6.5 GHz	plus or minus 0.18 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 N7551A. 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.