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Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

AGILENT

Agilent N5541A N2X Chassis w (2 X 1735A) LAN Protocol Fiber Modules

Agilent N5541A (2 × 1735A), Offers dual fiber LAN protocol testing with high-speed analysis and traffic generation, ideal for simulating and verifying network conditions in controlled environments.



MODEL

Agilent N5541A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

N5541A

LISTING

<https://aumictechlabs.com/products/n5541a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent N5541A N2X Chassis is a four-slot, rack-mountable or stackable platform engineered for multiservice network testing. This chassis forms the foundation of the N2X Multiservices Test Solution, enabling service providers, network equipment manufacturers, and component suppliers to validate end-to-end service attributes and isolate faults across individual devices and subsystems. The system ships with two Agilent 1735A LAN Protocol Fiber Modules, each supporting multi-application testing for 1, 2, and 4 Gb/s Fibre Channel with integrated protocol analysis, traffic generation, and performance measurement capabilities. Technical Specifications Chassis Model: Agilent N5541A Slot Configuration: 4-slot architecture Form Factor: 19" rack-mountable or bench-top stackable Included Modules: Two (2) Agilent 1735A LAN Protocol Fiber Modules Module Capability: 1, 2, and 4 Gb/s Fibre Channel protocol analysis, traffic generation, and performance testing Scalability: Up to 60 chassis daisy-chainable for expanded test port

density Time Synchronization Accuracy: 10 ns across chained systems Hot-Swap Operation: Test cards removable and insertable under power without disrupting active tests Multi-User Access: Simultaneous independent port control across single chassis Remote API Access: On-board application programming interface for remote operation Key Features Backward compatible with RouterTester 900, OmniBER XM, and SAN Tester hardware and software platforms Hundreds of test ports achievable through multi-chassis configurations Non-blocking hot-swap architecture preserves test continuity for other users Modular design supports SONET/SDH (OC-3 to OC-192), POS (OC-3c to OC-768c), ATM (OC-3c, OC-12c), Ethernet (10 Mb/s to 10 Gb/s), Frame Relay (OC-3c to OC-48c), and Fibre Channel (1 Gb/s to 4 Gb/s) via appropriate module population Typical Applications End-to-end network service validation across converging infrastructures Fault isolation and troubleshooting at the device and subsystem level Fibre Channel protocol testing and performance characterization Large-scale multiservice network simulation and stress testing Compatibility & Integration The N5541A requires a system controller (PC), test modules, and N2X system software. The chassis integrates with existing Agilent test platforms and supports flexible configurations through modular card insertion.

Features & description

From manufacturer datasheet

Technical Specifications

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Agilent N5541A — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Agilent N5541A. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic threshold verification, sample rate and timing accuracy, and trigger and synchronization bus functional verification. NI CompactRIO and PXI chassis also undergo backplane trigger line integrity check.. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Common Agilent N5541A faults: power supply failure (cRIO-9073/9074), C-series slot connector wear, PXI chassis fan failure, GPIB interface failure on VXI controllers, BIOS/EEPROM corruption. NI CompactRIO most common faults are power supply failure on older cRIO-9073/9074 chassis and C-series module slot connector wear from repeated hot-swap cycles. PXI chassis fan failure is the most common wear item — chassis fans are field-replaceable. VXI embedded controllers most commonly develop EEPROM corruption and GPIB interface failure. [Request Calibration](#) → [Request Repair Quote](#) →

Agilent N5541A price

This Agilent N5541A is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Agilent N5541A calibration cost

NIST-traceable calibration for the Agilent N5541A is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Calibration for this instrument covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic threshold verification, sample rate and timing accuracy, and trigger and synchronization bus functional verification. NI CompactRIO and PXI chassis also undergo backplane trigger line integrity check.. Turnaround is 1 to 3 business days after receipt. See full calibration details →

Applications

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Unit notes

The Agilent N5541A N2X Chassis is a four-slot, rack-mountable or stackable platform engineered for multiservice network testing. This chassis forms the foundation of the N2X Multiservices Test Solution, enabling service providers, network equipment manufacturers, and component suppliers to validate end-to-end service attributes and isolate faults across individual devices and subsystems. The system ships with two Agilent 1735A LAN Protocol Fiber Modules, each supporting multi-application testing for 1, 2, and 4 Gb/s Fibre Channel with integrated protocol analysis, traffic generation, and performance measurement capabilities. Technical Specifications Chassis Model: Agilent N5541A Slot Configuration: 4-slot architecture Form Factor: 19" rack-mountable or bench-top stackable Included Modules: Two (2) Agilent 1735A LAN Protocol Fiber Modules Module Capability: 1, 2, and 4 Gb/s Fibre Channel protocol analysis, traffic generation, and performance testing Scalability: Up to 60 chassis daisy-chainable for expanded test port density Time Synchronization Accuracy: 10 ns across chained systems Hot-Swap Operation: Test cards removable and insertable under power without disrupting active tests Multi-User Access: Simultaneous independent port control across single chassis Remote API Access: On-board application programming interface for remote operation Key Features Backward compatible with RouterTester 900, OmniBER XM, and SAN Tester hardware and software platforms Hundreds of test ports ac

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.

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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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