

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

DIGITAL LIGHTWAVE

Digital Lightwave NICNXG-N41

Digital Lightwave NICNXG-N41,"Advanced network tester supporting multiple protocols and interfaces. Provides real-time performance monitoring, troubleshooting, and service assurance. Suited for high-speed networks, including SONET, Ethernet, and optical links."



MODEL

**Digital Lightwave
NICNXG-N41**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

NICNXG-N41

LISTING

<https://aumictechlabs.com/products/nicnwg-n41-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Digital Lightwave NICNXG-N41 is a multi-protocol network tester engineered for performance verification and service assurance across global communications networks. It delivers real-time monitoring, troubleshooting, and qualification capabilities across SONET/SDH, OTN, Ethernet, and Fibre Channel technologies at rates up to 112 Gbps. The platform supports simultaneous multi-user operation with up to 20 concurrent users and scales across multiple form factors - from compact 2-slot to 5-slot rackmount configurations - accommodating diverse testing requirements in high-speed network environments. Technical Specifications SONET/SDH: 51 Mbps to 10 Gbps (OC-1 to OC-192); 40 Gbps (OC-768) OTN (G.709): 2.6 Gbps to 112 Gbps with FEC generation and analysis; OTU rates include OTU4, OTU3, OTU3e1/OTU3e2, OTU2f/OTU1f, OTU2e/OTU1e, OTU2, OTU1 Ethernet: 10/100/1000BaseT, GigE, 10GigE LAN & WAN Fibre Channel: 1 Gbps, 2 Gbps, 4 Gbps, 8 Gbps, 10 Gbps PDH/T-Carrier: DS1, DS3, E1, E3, E4 Jitter/Wander: 1.5 Mbps to 10.7 Gbps OTL Layer Testing: 40 Gbps and 100 Gbps rates Optical Spectrum Analyzer: C-Band and L-Band

support Serial Interfaces: RS-530/RS-232 (synchronous/asynchronous, DCE/DTE modes)
Protocols: VCAT, LCAS, GFP Clock Reference: Internal Stratum 3; BITS/SETS/2.048 MHz
Bantam/BNC input/output; NIST traceable calibration available

Key Features Multi-rate testing capability up to 112 Gbps with unframed BERT for all rates ODU multiplexing with simultaneous generation and analysis Configurable test ports supporting independent and concurrent operation Dual external display support via VGA (DE-15) and secondary monitors 10/100/1000BASE-T Ethernet connectivity Peripheral I/O: 3× USB, SD/SDHC slot, trigger in/out, optional 802.11 wireless via USB Available test modules: PDH/T-Carrier with Jitter/Wander, MSA 2020/2030, Optical Jitter and Wander, CSA 4100 40G/100G, OSA, Serial Interface, ATM

Typical Applications Operational acceptance testing, service activation, circuit maintenance, network performance monitoring, protocol-layer diagnostics, optical spectrum measurement, and multi-protocol network qualification.

Compatibility & Integration Available platforms: NIC NXG (2-slot), NIC BP (2-slot with battery pack), NIC Plus NXG (5-slot), NIC EP (5-slot rackmount). ATM module support available. Flexible software/firmware architecture enables scalability across evolving network technologies.

Features & description

From manufacturer datasheet

Technical Specifications

SONET/SDH: 51 Mbps to 10 Gbps (OC-1 to OC-192); 40 Gbps (OC-768) OTN (G.709): 2.6 Gbps to 112 Gbps with FEC generation and analysis; OTU rates include OTU4, OTU3, OTU3e1/OTU3e2, OTU2f/OTU1f, OTU2e/OTU1e, OTU2, OTU1 Ethernet: 10/100/1000BaseT, GigE, 10GigE LAN & WAN Fibre Channel: 1 Gbps, 2 Gbps, 4 Gbps, 8 Gbps, 10 Gbps PDH/T-Carrier: DS1, DS3, E1, E3, E4 Jitter/Wander: 1.5 Mbps to 10.7 Gbps OTL Layer Testing: 40 Gbps and 100 Gbps rates Optical Spectrum Analyzer: C-Band and L-Band support Serial Interfaces: RS-530/RS-232 (synchronous/asynchronous, DCE/DTE modes) Protocols: VCAT, LCAS, GFP Clock Reference: Internal Stratum 3; BITS/SETS/2.048 MHz Bantam/BNC input/output; NIST traceable calibration available

Key Features

Multi-rate testing capability up to 112 Gbps with unframed BERT for all rates ODU multiplexing with simultaneous generation and analysis Configurable test ports supporting independent and concurrent operation Dual external display support via VGA (DE-15) and secondary monitors 10/100/1000BASE-T Ethernet connectivity Peripheral I/O: 3× USB, SD/SDHC slot, trigger in/out, optional 802.11 wireless via USB Available test modules: PDH/T-Carrier with Jitter/Wander, MSA 2020/2030, Optical Jitter and Wander, CSA 4100 40G/100G, OSA, Serial Interface, ATM Typical Applications Operational acceptance testing, service activation, circuit maintenance, network performance monitoring, protocol-layer diagnostics, optical spectrum measurement, and multi-protocol network qualification. Compatibility & Integration Available platforms: NIC NXG (2-slot), NIC BP (2-slot with battery pack), NIC Plus NXG (5-slot), NIC EP (5-slot rackmount). ATM module support available. Flexible software/firmware architecture enables scalability across evolving network technologies.

Digital Lightwave NICNXG-N41 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Digital Lightwave NICNXG-N41. All calibrations are performed to NIST-traceable standards and ship with a 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 [Request Calibration](#) → [Request Repair Quote](#) →

Digital Lightwave NICNXG-N41 price

This Digital Lightwave NICNXG-N41 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Digital Lightwave NICNXG-N41 calibration cost

NIST-traceable calibration for the Digital Lightwave NICNXG-N41 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented,

traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Unit notes

The Digital Lightwave NICNXG-N41 is a multi-protocol network tester engineered for performance verification and service assurance across global communications networks. It delivers real-time monitoring, troubleshooting, and qualification capabilities across SONET/SDH, OTN, Ethernet, and Fibre Channel technologies at rates up to 112 Gbps. The platform supports simultaneous multi-user operation with up to 20 concurrent users and scales across multiple form factors - from compact 2-slot to 5-slot rackmount configurations - accommodating diverse testing requirements in high-speed network environments.

Technical Specifications

SONET/SDH: 51 Mbps to 10 Gbps (OC-1 to OC-192); 40 Gbps (OC-768)

OTN (G.709): 2.6 Gbps to 112 Gbps with FEC generation and analysis; OTU rates include OTU4, OTU3, OTU3e1/OTU3e2, OTU2f/OTU1f, OTU2e/OTU1e, OTU2, OTU1

Ethernet: 10/100/1000BaseT, GigE, 10GigE

LAN & WAN Fibre Channel: 1 Gbps, 2 Gbps, 4 Gbps, 8 Gbps, 10 Gbps

PDH/T-Carrier: DS1, DS3, E1, E3, E4

Jitter/Wander: 1.5 Mbps to 10.7 Gbps

OTL Layer Testing: 40 Gbps and 100 Gbps rates

Optical Spectrum Analyzer: C-Band and L-Band support

Serial Interfaces: RS-530/RS-232 (synchronous/asynchronous, DCE/DTE modes)

Protocols: VCAT, LCAS, GFP

Clock Reference: Internal Stratum 3; BITS/SETS/2.048 MHz Bantam/BNC input/output; NIST traceable calibration available

Key Features

Multi-rate testing capability up to 112 Gbps with unframed BERT for all rates

ODU multiplexing with simultaneous generation and analysis

Configur

NICNXG-N41 Specifications

PARAMETER	VALUE
Wavelength Range	C-Band and L-Band

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.

Digital Lightwave NICNXG-N41,"Advanced network tester supporting multiple protocols and interfaces. Provides real-time performance monitoring, troubleshooting, and service assurance. Suited for high-speed networks, including SONET, Ethernet, and optical links."

The Digital Lightwave NICNXG-N41 is a multi-protocol network tester engineered for performance verification and service assurance across global communications networks. It delivers real-time monitoring, troubleshooting, and qualification capabilities across SONET/SDH, OTN, Ethernet, and Fibre Channel technologies at rates up to 112 Gbps. The platform supports simultaneous multi-user operation with up to 20 concurrent users and scales across multiple form factors - from compact 2-slot to 5-slot rackmount configurations - accommodating diverse testing requirements in high-speed network environments.

Typical Applications Operational acceptance testing, service activation, circuit maintenance, network performance monitoring, protocol-layer diagnostics, optical spectrum measurement, and multi-protocol network qualification.

Compatibility & Integration Available platforms: NIC NXG (2-slot), NIC BP (2-slot with battery pack), NIC Plus NXG (5-slot), NIC EP (5-slot rackmount). ATM module support available. Flexible software/firmware architecture enables scalability across evolving network technologies.

NICNXG-N41 Specifications

PARAMETER	VALUE
Wavelength Range	C-Band and L-Band

Technical Specifications

SONET/SDH: 51 Mbps to 10 Gbps (OC-1 to OC-192); 40 Gbps (OC-768) OTN (G.709): 2.6 Gbps to 112 Gbps with FEC generation and analysis; OTU rates include OTU4, OTU3, OTU3e1/OTU3e2, OTU2f/OTU1f, OTU2e/OTU1e, OTU2, OTU1 Ethernet: 10/100/1000BaseT, GigE, 10GigE LAN & WAN Fibre Channel: 1 Gbps, 2 Gbps, 4 Gbps, 8 Gbps, 10 Gbps PDH/T-Carrier: DS1, DS3, E1, E3, E4 Jitter/Wander: 1.5 Mbps to 10.7 Gbps OTL Layer Testing: 40 Gbps and 100 Gbps rates Optical Spectrum Analyzer: C-Band and L-Band support Serial Interfaces: RS-530/RS-232 (synchronous/asynchronous, DCE/DTE modes) Protocols: VCAT, LCAS, GFP Clock Reference: Internal Stratum 3; BITS/SETS/2.048 MHz Bantam/BNC input/output; NIST traceable calibration available

Key Features

Multi-rate testing capability up to 112 Gbps with unframed BERT for all rates ODU multiplexing with simultaneous generation and analysis Configurable test ports supporting independent and concurrent operation Dual external display support via VGA (DE-15) and secondary monitors 10/100/1000BASE-T Ethernet connectivity Peripheral I/O: 3× USB, SD/SDHC slot, trigger in/out, optional 802.11 wireless via USB Available test modules: PDH/T-Carrier with Jitter/Wander, MSA 2020/2030, Optical Jitter and Wander, CSA 4100 40G/100G, OSA, Serial Interface, ATM

Typical Applications Operational acceptance testing, service activation, circuit maintenance, network performance monitoring, protocol-layer diagnostics, optical spectrum measurement, and multi-protocol network qualification.

Compatibility & Integration Available platforms: NIC NXG (2-slot), NIC BP (2-slot with battery pack), NIC Plus NXG (5-slot), NIC EP (5-slot rackmount). ATM module support available. Flexible software/firmware architecture enables scalability across evolving network technologies.

Digital Lightwave NICNXG-N41 – Repair & Calibration Service

Aumitech offers NIST-traceable calibration and repair for the Digital Lightwave NICNXG-N41. All calibrations are performed to NIST-traceable standards and ship with a 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

Request Calibration → Request Repair Quote →

Digital Lightwave NICNXG-N41 price

This Digital Lightwave NICNXG-N41 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Digital Lightwave NICNXG-N41 calibration cost

NIST-traceable calibration for the Digital Lightwave NICNXG-N41 is (standard – pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →

Unit notes

The Digital Lightwave NICNXG-N41 is a multi-protocol network tester engineered for performance verification and service assurance across global communications networks. It delivers real-time monitoring, troubleshooting, and qualification capabilities across SONET/SDH, OTN, Ethernet, and Fibre Channel technologies at rates up to 112 Gbps. The platform supports simultaneous multi-user operation with up to 20 concurrent users and scales across multiple form factors - from compact 2-slot to 5-slot rackmount configurations - accommodating diverse testing requirements in high-speed network environments. Technical Specifications SONET/SDH: 51 Mbps to 10 Gbps (OC-1 to OC-192); 40 Gbps (OC-768) OTN (G.709): 2.6 Gbps to 112 Gbps with FEC generation and analysis; OTU rates include OTU4, OTU3, OTU3e1/OTU3e2, OTU2f/OTU1f, OTU2e/OTU1e, OTU2, OTU1 Ethernet: 10/100/1000BaseT, GigE, 10GigE LAN & WAN Fibre Channel: 1 Gbps, 2 Gbps, 4 Gbps, 8 Gbps, 10 Gbps PDH/T-Carrier: DS1, DS3, E1, E3, E4 Jitter/Wander: 1.5 Mbps to 10.7 Gbps OTL Layer Testing: 40 Gbps and 100 Gbps rates Optical Spectrum Analyzer: C-Band and L-Band support Serial Interfaces: RS-530/RS-232 (synchronous/asynchronous, DCE/DTE modes) Protocols: VCAT, LCAS, GFP Clock Reference: Internal Stratum 3; BITS/SETS/2.048 MHz Bantam/BNC input/output; NIST traceable calibration available Key Features Multi-rate testing capability up to 112 Gbps with unframed BERT for all rates ODU multiplexing with simultaneous generation and analysis Configur

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 12, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.