

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

DIGITAL LIGHTWAVE

Digital Lightwave NIC NXG NL81B PORTABLE NETWORK INFORMATION

Digital Lightwave NIC NXG NL81B PORTABLE NETWORK INFORMATION, Advanced network analyzer module for 10G/40G testing with complete protocol analysis. Enables service verification, fault location, and performance monitoring in next-gen networks. Features high-resolution display and modular design for flexible testing configurations and scenarios.



MODEL

**Digital Lightwave
NL81B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

NL81B

LISTING

<https://aumictechlabs.com/products/nl81b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Digital Lightwave NIC NXG NL81B is a portable network analyzer module for testing Ethernet, Fibre Channel, OTN, SONET/SDH, and PDH/DSn networks. It delivers comprehensive protocol analysis, service verification, fault location, and performance monitoring across 10/100/1000BASE-T and 10 Gigabit Ethernet optical interfaces. The modular platform scales with network demands through flexible software/firmware architecture and supports optional plug-in modules for specialized testing. Technical Specifications Interfaces: 10/100/1000BASE-T network interface, 10 Gigabit Ethernet optical port, 10G to 52M SONET/SDH Optical/Electrical module (N41B), 1550nm Pluggable Laser SFP-LR2, 1310nm Pluggable Laser XFP-SR Display: 10.4 in (NIC) or 12.1 in (NIC+) high-resolution color touch screen with anti-glare coating Clock Reference: Internal Stratum 3, with BITS/SETS/2.048MHz Bantam/BNC clock in and clock out Storage:

Removable industrial-grade Compact Flash module for OS Connectivity: 3x USB ports, SD/SDHC slot, external VGA display port (DE-15), trigger in/out, optional 802.11 wireless via USB Automation: SCPI command support with remote GUI client and VNC access Power Input: 90-264 VAC, 50-60 Hz; Power dissipation 150 W (NIC) / 350 W (NIC+) Operating Temperature: 0°C to +40°C Storage Temperature: -40°C to +85°C Humidity: 5% to 95%, non-condensing Emissions: EN 55022 Class B (conducted and radiated)Key Features Dual-form-factor design: NIC (5.0-5.6 kg) and NIC+ (6.5-11.34 kg) with corresponding display and power options Modular architecture supporting field-swappable optical/electrical modules Integrated clock reference with BITS/SETS compatibility for telecom synchronization Multi-technology support spans legacy PDH through 10 Gigabit Ethernet Class 1 laser devices; requires dust caps on unterminated optical portsTypical Applications Service activation and troubleshooting on carrier-grade networks Protocol and performance analysis for multi-layer network stacks Jitter measurement and synchronization validation Field testing of Ethernet, Fibre Channel, and optical transport systemsCompatibility & Integration The modular architecture accommodates optional test modules including 2.66 to 155M optical jitter analysis. Soft carrying case standard; water-resistant hard case available.

Features & description

From manufacturer datasheet

Technical Specifications

Interfaces: 10/100/1000BASE-T network interface, 10 Gigabit Ethernet optical port, 10G to 52M SONET/SDH Optical/Electrical module (N41B), 1550nm Pluggable Laser SFP-LR2, 1310nm Pluggable Laser XFP-SR Display: 10.4 in (NIC) or 12.1 in (NIC+) high-resolution color touch screen with anti-glare coating Clock Reference: Internal Stratum 3, with BITS/SETS/2.048MHz Bantam/BNC clock in and clock out Storage: Removable industrial-grade Compact Flash module for OS Connectivity: 3x USB ports, SD/SDHC slot, external VGA display port (DE-15), trigger in/out, optional 802.11 wireless via USB Automation: SCPI command support with remote GUI client and VNC access Power Input: 90-264 VAC, 50-60 Hz; Power dissipation 150 W (NIC) / 350 W (NIC+) Operating Temperature: 0°C to +40°C Storage Temperature: -40°C to +85°C Humidity: 5% to 95%, non-condensing Emissions: EN 55022 Class B (conducted and radiated)

Key Features

Dual-form-factor design: NIC (5.0-5.6 kg) and NIC+ (6.5-11.34 kg) with corresponding display and power options Modular architecture supporting field-swappable optical/electrical modules Integrated clock reference with BITS/SETS compatibility for telecom synchronization Multi-technology support spans legacy PDH through 10 Gigabit Ethernet Class 1 laser devices; requires dust caps on unterminated optical ports

Specifications

Parameter	Value
Voltage / Current Range	100–120 VAC and 200–240 VAC, 50–60 Hz Wavelength Range: 1310 nm/1550 nm dual wavelength, 1550 nm single wavelength

Digital Lightwave NL81B — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Digital Lightwave NL81B. 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 NL81B price

This Digital Lightwave NL81B is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Digital Lightwave NL81B calibration cost

NIST-traceable calibration for the Digital Lightwave NL81B 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 →

Applications

Service activation and troubleshooting on carrier-grade networks Protocol and performance analysis for multi-layer network stacks Jitter measurement and synchronization validation Field testing of Ethernet, Fibre Channel, and optical transport systems Compatibility & Integration The modular architecture accommodates optional test modules including 2.66 to 155M optical jitter analysis. Soft carrying case standard; water-resistant hard case available.

Unit notes

The Digital Lightwave NIC NXG NL81B is a portable network analyzer module for testing Ethernet, Fibre Channel, OTN, SONET/SDH, and PDH/DSn networks. It delivers comprehensive protocol analysis, service verification, fault location, and performance monitoring across 10/100/1000BASE-T and 10 Gigabit Ethernet optical interfaces. The modular platform scales with network demands through flexible software/firmware architecture and supports optional plug-in modules for specialized testing.

Technical Specifications

Interfaces: 10/100/1000BASE-T network interface, 10 Gigabit Ethernet optical port, 10G to 52M SONET/SDH Optical/Electrical module (N41B), 1550nm Pluggable Laser SFP-LR2, 1310nm Pluggable Laser XFP-SR

Display: 10.4 in (NIC) or 12.1 in (NIC+) high-resolution color touch screen with anti-glare coating

Clock Reference: Internal Stratum 3, with BITS/SETS/2.048MHz Bantam/BNC clock in and clock out

Storage: Removable industrial-grade Compact Flash module for OS

Connectivity: 3x USB ports, SD/SDHC slot, external VGA display port (DE-15), trigger in/out, optional 802.11 wireless via USB

Automation: SCPI command support with remote GUI client and VNC access

Power Input: 90-264 VAC, 50-60 Hz; Power dissipation 150 W (NIC) / 350 W (NIC+)

Operating Temperature: 0°C to +40°C

Storage Temperature: -40°C to +85°C

Humidity: 5% to 95%, non-condensing

Emissions: EN 55022 Class B (conducted and radiated)

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NL81B Specifications

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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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Compatibility & Integration The modular architecture accommodates optional test modules including 2.66 to 155M optical jitter analysis. Soft carrying case standard; water-resistant hard case available.

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NL81B Specifications

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Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

Request Calibration → Request Repair Quote →

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Digital Lightwave NL81B calibration cost

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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 →

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
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<https://aumictechlabs.com>

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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.