

**Aumictech**

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Data Sheet

August 1, 2026

DIGITAL LIGHTWAVE

Digital Lightwave NIC NXG NL81 PORTABLE NETWORK INFORMATION

Form Factor: Portable 2-slot; fits under airline seat with case Related Platforms: NIC Plus NXG (5-slot); NIC BP (battery); NIC EP (rackmount) Confirm installed modules and software options before quoting protocol rates. Use appropriate optical/electrical interface adapters. Allow warm-up and follow Digital Lightwave/VeEX operating procedures for laser safety. NL81 isachassis/configuration identity–inventory installed NGMR/PDH modules and enabled options on the unit. Do not assume 10G or OTN capability without verifying licenses and optics. Omit inventory marketing wording from identity. Related Platforms: NIC Plus NXG (5-slot); NIC BP (battery); NIC EP (rackmount) Confirm installed modules and software options before quoting protocol rates. Use appropriate optical/electrical interface adapters. Allow warm-up and follow Digital Lightwave/VeEX operating procedures for laser safety. NL81 isachassis/configuration identity–inventory installed NGMR/PDH modules and enabled options on the unit. Do not assume 10G or OTN capability without verifying licenses and optics. Omit inventory marketing wording from identity.



MODEL

**Digital Lightwave
NL81**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

NL81

LISTING

<https://aumictechlabs.com/products/nl81-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Digital Lightwave NIC NXG NL81 is a portable multi-protocol test platform for SONET/SDH, Ethernet, Fibre Channel, OTN, and PDH/DSn service validation. This 2-slot chassis integrates modular interface cards supporting rates from 2.6 Gbps to 112 Gbps, enabling technicians to consolidate multiple traditional test sets into a single portable instrument. The platform delivers automated RFC 2544 testing, OTN G.709 analysis with FEC generation and verification, jitter and wander characterization across optical and electrical domains, and DWDM system monitoring via C-Band and L-Band optical spectrum analysis.

Technical Specifications

Platform & Chassis NIC NXG 2-slot configuration (NIC Plus NXG 5-slot also available) Multi-rate capability: 2.6 Gbps to 112 Gbps Input Voltage: 100–120 VAC and 200–240 VAC, 50–60 Hz Supported Protocols SONET/SDH, Ethernet, Fibre Channel, OTN (Optical Transport Network), PDH/DSn

Modular Interface Options

- 10/100/1000BaseT Ethernet (Ports 5-12)
- 10 Gigabit Ethernet optical (Port 13)
- 10G LAN over OTU-1e/OTU-2e
- STM-64/OC-192 optical
- 10G optical and electrical jitter modules
- PDH/T-Carrier module with optional jitter and wander testing
- Optical Spectrum Analyzer (C-Band and L-Band)
- Serial Interface, ATM, MSA 2020/2030, and CSA 4100
- 40G/100G modules
- OTN & Optical Testing OTU4, OTU3, OTU3e1/OTU3e2, OTU2f/OTU1f, OTU2e/OTU1e, OTU2, OTU1 rates with FEC generation and analysis
- OTL layer testing at 40/100G
- Unframed BERT testing across all rates
- ODU multiplexing with simultaneous generation and analysis
- Jitter and Wander characterization (SONET/SDH, optical, electrical)
- DWDM & Optical Analysis Wavelength, frequency, and deviation measurements
- C-Band and L-Band optical spectrum monitoring

Safety Contains Class 1 laser devices; avoid direct fiber viewing on unterminated ports

Class A EMC product; may cause radio interference in domestic environments

Features & description

From manufacturer datasheet

Features

- Portable 2-slot NIC NXG chassis
- NGMR multi-rate SONET/SDH (51 Mbps to 10 Gbps class)
- Optional OTN, Ethernet, VCAT/LCAS/GFP and related NextGen options (license/module dependent)
- Optional PDH/T-Carrier module with or without jitter/wander
- Touchscreen GUI; remote test control (family)
- Field-upgradable software/firmware architecture
- Compact form with cloth carrying case (OEM description)

NL81 Characteristics / Specifications

PARAMETER	VALUE
Model	NIC NXG NL81 (configuration code NL81)
Manufacturer	Digital Lightwave (later VeEX NIC lineage)
Instrument Type	Portable multi-protocol Network Information Computer
Slots	2 (NIC NXG class)
SONET/SDH Rates (NGMR)	51 Mbps, 155 Mbps, 622 Mbps, 2.5 Gbps, 10 Gbps
Additional Protocols (option/module dependent)	OTN OTU-1/OTU-2; 1GbE; 10GbE LAN/WAN/FEC; PDH/DSn; Ethernet/Fibre Channel/ATM on broader NIC family
Form Factor	Portable 2-slot; fits under airline seat with case
Related Platforms	NIC Plus NXG (5-slot); NIC BP (battery); NIC EP (rackmount) Standard Operating Conditions Confirm installed modules and software options before quoting protocol rates. Use appropriate optical/electrical interface adapters. Allow warm-up and follow Digital Lightwave/VeEX operating procedures for laser safety.
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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.

Specifications

Specifications

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Standard Operating Conditions

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Operational Notes

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Laser Safety

laser safety. Operational Notes NL81 isachassis/configuration identity–inventory installed NGMR/PDH modules and enabled options on the unit. Do not assume 10G or OTN capability without verifying licenses and optics. Omit inventory marketing wording from identity.

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

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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.