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Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

DIGITAL LIGHTWAVE

Digital Lightwave NIC10G-A1-B1-C1-E1-E2 Network Information Analyzer

Digital Lightwave NIC10G-A1-B1-C1-E1-E2 Network Information Analyzer,"Comprehensive 10G network analyzer with multi-interface testing capability. Delivers real-time analysis, monitoring, and diagnostics for Ethernet, SONET, and SDH. Ideal for telecom engineers and field technicians."



MODEL

**Digital Lightwave
NIC10G-A1-B1-C1-
E1-E2**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**NIC10G-A1-B1-C1-
E1-E2**

LISTING

[https://aumictechlabs.c
om/products/nic10g-a1-
b1-c1-e1-e2-2/](https://aumictechlabs.com/products/nic10g-a1-b1-c1-e1-e2-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Digital Lightwave NIC10G-A1-B1-C1-E1-E2 Network Information Analyzer is a portable testing platform engineered for OTN, SONET/SDH, POS, and packet-based network analysis. It delivers comprehensive performance monitoring, error detection, and diagnostics across transmission rates from DS0/64 Kbps through 10.7/10G. The touch-sensitive graphical user interface minimizes operator training while supporting technicians across design, manufacturing, installation, and maintenance phases of fiber-optic networks. Technical Specifications Network Rates and Protocols Supported transmission rates: DS0/64 Kbps through 10.7/10G rates OTN: G.709 OTN (OTU1, OTU2, OTU3, OTU3e1/OTU3e2, OTU4, OTU1e/OTU2e, OTU1f/OTU2f); OTL layer testing at

40/100G rates; unframed BERT testing across all rates SONET/SDH: OC-192c/OC-48c SONET and STM-64/STM-16 SDH with rates up to OC-192/STM-64 Fibre Channel: All rates to 11.3G including 1/2/4/8/10G; unframed BERT for OTU1f/OTU2f, 8G, 10G Protocol support: Packet over SONET/SDH (POS), Gigabit Ethernet (GigE), Asynchronous Transfer Mode (ATM), T/E-Carrier Mappings: GFP-T/GFP-F/Ethernet, Fibre Channel, SONET/SDH, PRBS, Null Client; supports AU-4-64c Ethernet WAN/STS-192c Ethernet WAN for 10G WAN; 10G LAN over OTU-1e/OTU-2e (11G) ODU multiplexing with simultaneous generation and analysis at all levels; ODU0 and ODUFlex support (line rate dependent) Performance Monitoring and Alarms OC-192 detection: LOF, LOS, SEF, AIS-L, RDI-L, LOP-P, AIS-P, UNEQ-P, pattern sync, concatenation (RS-TIM, HP-TIM, HP-PLM); B1, B2, REI-L, B3, REI-P, BIT errors STM-64 detection: LOF, LOS, OOF, MS-AIS, MS-RDI, AU-AIS, AU-LOP, HP-RDI, HP-UNEQ, RS-TIM, HP-TIM, HP-PLM, pattern sync, concatenation; B1, B2, MS-REI, B3, HP-REI, BIT errors Error injection: Single, 10^{-10} to 10^{-3} BIT error rates (user-programmable); other errors single to maximum (user-programmable) APS support: K1/K2 byte transmission/reception for linear and ring-mode command sequences per G.841 Performance measurements: G.821, G.826, M.2101.1 complianceKey Features Compact form factor optimized for OTN and 2.5/10 Gbps applications Portable design for field deployment and bench-top operation Touch-sensitive GUI reduces operational complexity across skill levels Simultaneous ODU generation and analysis at multiple levels Dual-rate OTN support (OTU1 and OTU2) with extended mapping capabilitiesTypical Applications OTN network deployment and acceptance testing SONET/SDH system commissioning and maintenance 10 Gbps Ethernet WAN/LAN validation Fibre Channel infrastructure verification Multi-protocol network diagnostics from DS0 to 10GCompatibility & Integration Supports testing across legacy (T/E-Carrier, ATM) and modern (OTN, GigE, Fibre Channel) network architectures. ODU multiplexing enables analysis of multiple tributary signals simultaneously. Line-rate dependent ODU0 and ODUFlex support extends applicability across diverse network topologies.

Features & description

From manufacturer datasheet

Technical Specifications

Supported transmission rates: DS0/64 Kbps through 10.7/10G rates OTN: G.709 OTN (OTU1, OTU2, OTU3, OTU3e1/OTU3e2, OTU4, OTU1e/OTU2e, OTU1f/OTU2f); OTL layer testing at 40/100G rates; unframed BERT testing across all rates SONET/SDH: OC-192c/OC-48c SONET and STM-64/STM-16 SDH with rates up to OC-192/STM-64 Fibre Channel: All rates to 11.3G including 1/2/4/8/10G; unframed BERT for OTU1f/OTU2f, 8G, 10G Protocol support: Packet over SONET/SDH (POS), Gigabit Ethernet (GigE), Asynchronous Transfer Mode (ATM), T/E-Carrier Mappings: GFP-T/GFP-F/Ethernet, Fibre Channel, SONET/SDH, PRBS, Null Client; supports AU-4-64c Ethernet WAN/STS-192c Ethernet WAN for 10G WAN; 10G LAN over OTU-1e/OTU-2e (11G) ODU multiplexing with simultaneous generation and analysis at all levels; ODU0 and ODUflex support (line rate dependent) Performance Monitoring and Alarms OC-192 detection: LOF, LOS, SEF, AIS-L, RDI-L, LOP-P, AIS-P, UNEQ-P, pattern sync, concatenation (RS-TIM, HP-TIM, HP-PLM); B1, B2, REI-L, B3, REI-P, BIT errors STM-64 detection: LOF, LOS, OOF, MS-AIS, MS-RDI, AU-AIS, AU-LOP, HP-RDI, HP-UNEQ, RS-TIM, HP-TIM, HP-PLM, pattern sync, concatenation; B1, B2, MS-REI, B3, HP-REI, BIT errors Error injection: Single, 10^{-10} to 10^{-3} BIT error rates (user-programmable); other errors single to maximum (user-programmable) APS support: K1/K2 byte transmission/reception for linear and ring-mode command sequences per G.841 Performance measurements: G.821, G.826, M.2101.1 compliance

Key Features

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Digital Lightwave NIC10G-A1-B1-C1-E1-E2 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Digital Lightwave NIC10G-A1-B1-C1-E1-E2. 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 NIC10G-A1-B1-C1-E1-E2 price

This Digital Lightwave NIC10G-A1-B1-C1-E1-E2 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Digital Lightwave NIC10G-A1-B1-C1-E1-E2 calibration cost

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Applications

OTN network deployment and acceptance testing SONET/SDH system commissioning and maintenance 10 Gbps Ethernet WAN/LAN validation Fibre Channel infrastructure verification Multi-protocol network diagnostics from DS0 to 10G Compatibility & Integration Supports testing across legacy (T/E-Carrier, ATM) and modern (OTN, GigE, Fibre Channel) network architectures. ODU multiplexing enables analysis of multiple tributary signals simultaneously. Line-rate dependent ODU0 and ODUflex support extends applicability across diverse network topologies.

Unit notes

The Digital Lightwave NIC10G-A1-B1-C1-E1-E2 Network Information Analyzer is a portable testing platform engineered for OTN, SONET/SDH, POS, and packet-based network analysis. It delivers comprehensive performance monitoring, error detection, and diagnostics across transmission rates from DS0/64 Kbps through 10.7/10G. The touch-sensitive graphical user interface minimizes operator training while supporting technicians across design, manufacturing, installation, and maintenance phases of fiber-optic networks.

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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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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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<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.