

## The NIC EP

The Digital Lightwave NIC Embedded Platform is a scalable rack mount solution for verifying and qualifying the performance of today's multiprotocol global communications networks.

The Digital Lightwave NIC® Embedded Platform (NIC EP™) provides users the capability of permanently rack mounting the NIC (Network Information Computer®) platform. The front access interface panel of the NIC EP is ideal for cabling in a central office, network operation center, manufacturing environment, or other permanently installed application.

The Digital Lightwave NIC EP® is the most compact and cost-effective diagnostic platform for next-generation communications networks on the market. The NIC EP provides a wide range of innovative test and measurement applications from DS0/64K through OC-192/STM-64—including G.709 OTN (OTU 1/OTU 2), GigE, 10/100 Ethernet, ATM, PoS, and OSA.

With a flexible software/firmware-based architecture, the scalable NIC EP combines in a single platform the multitude of traditional hardware-based test sets required to install, maintain, and monitor high-speed multi-protocol networks.

The NIC EP is designed to grow as your network grows, and as technologies change.

An intuitive GUI enables technicians of any experience level to effectively operate the NIC EP, minimizing training costs. The NIC EP is fully compatible with the entire NIC product line.

The NIC EP can also be configured with the new single-board optical multirate modules, providing equipment manufacturers and service providers with a cost-effective, high-speed, high-density solution for OTN—as well as 10G and 2.5G interfaces—in a single portable platform.



Network Information Computer (NIC EP)

# The NIC EP

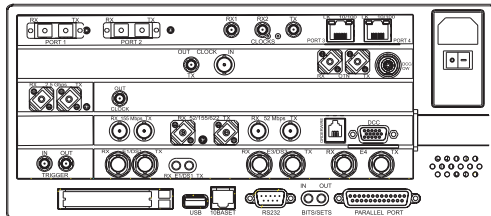
The Network Information Computer product family is a comprehensive line of portable analyzers used during the design, manufacture, installation, and maintenance of global communications networks, including G.709 OTN (OTU 1 and OTU 2), SONET/SDH, DWDM/OSA, GigE, 10/100 Ethernet, ATM, PoS, Jitter, and T/E-Carrier.

## Major Features:

- Standard design mounts in EIA 19" rack or cabinet 4U high
- Adapter panel available for mounting in 23" rack or cabinet
- VGA connector for local monitor/GUI display
- Intuitive remote control GUI
- Rack mount kit includes mounting hardware for attachment to cabinet/rack rails
- Simultaneous and independent testing of SONET/SDH, T-Carrier, PDH, ATM and PoS. Separate protocol processors for PDH (DS1/E1, DS3/E3, E4), ATM and SONET/SDH (OC-1/STM-0 through OC-192/STM-64)
- Internal DS1/DS3 and E1/E3 drop/insert from SONET/SDH, built-in M13/E13
- OC-192/STM-64 through-mode with overhead manipulation
- OC-192/STM-64 1310 or 1550 nm
- Round-trip delay measurement capabilities at optical rates
- Tandem connection monitoring (TCM), automatic protection switching (APS), and STS/AU pointer sequencing
- Alarm/error generation and analysis
- Auto configuration to pattern level
- Troublescan
- Built-in optical power and frequency measurement
- 12.1-inch active matrix color display with touch screen
- Dual slot PCMCIA interface
- GUI can be controlled remotely or integrated into network via OSS
- Software/firmware upgradeable via Web
- SCPI over GPIB, TCP/IP, or RS-232c
- Graphical switch matrix; graphical results
- Available in over 50 configurations

## Optional Features:

- 10.71 Gbps OTU 2 analysis, 2.67 Gbps OTU 1 analysis
- FEC code RS (255/239)
- OC-48/STM-16 1310 nm, 1550 nm or switchable wavelength laser option
- Packet over SONET/SDH (PoS)
- C and L band optical spectrum analysis module
- OC-192/STM-64 to STS-1/STM-0 mapping
- Independent GigE module with four ports: 2 SX, LX, ZX with VLAN tagging, and 2 10/100 ports
- STM-1 through STM-16 jitter capability
- STM-0 through STM-4 ATM capabilities
- Support for AAL0, AAL1, AAL5, traffic shaping, PVC/SVC, OAM, QoS measurements, HEC error generation
- Multiple slots for future expansion to 40G, 10G Ethernet, etc.



Connector Panel\*

## Auxiliary Interfaces

- RS-232 Async: DB-9
- Parallel Port: DB-25
- USB
- Input/Output Trigger: SMA
- 10G Clock Out/2.5G Clock Out
- Orderwire: Handset jack (A-law)
- BITS/SETS Clock: Bantam
- PCMCIA: Dual Slot: 2-Type II or 1-Type III
- 802.11B: Wireless LAN
- PCMCIA Support
- 10 BaseT: RJ-45
- DCC: RS-499, DB-15 pin
- VGA: RS-499, DB-15 pin

## General Specifications

- Operating Temperature: 0° to 40° C @ 85% RH
- Storage Temperature: -20° to 60° C @ 95% RH
- Power Requirements: 100-120 and 200-240 V AC, 50-60 Hz
- Dimensions: 19" W x 7" H x 10 5/8" D
- Weight: 14.5 - 25 lb, depending on configuration

\*Example configuration. Specifications are subject to change without notice.

## Ordering Information

For complete feature availability, ordering and pricing information, call your Digital Lightwave sales representative at +1 727 442 6677, +1 800-548-9283, or visit our Web site at [www.lightwave.com](http://www.lightwave.com).



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Digital Lightwave provides industry-leading products, technologies, and services for deploying and managing communications networks. With a presence in more than 80 countries, Digital Lightwave enables customers to successfully implement global communications networks worldwide. To find the nearest sales office, please visit [www.lightwave.com](http://www.lightwave.com).

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