

Digital Lightwave NIC 10G

Network Information Computer



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The NIC 10G

The Digital Lightwave NIC 10G Network Information Computer is an intuitive portable testing platform for high-speed OTN, SONET/SDH, and POS networks.

The Digital Lightwave NIC 10G® Network Information Computer® is a portable instrument for verifying and qualifying the performance of G.709 OTN (OTU 1 and OTU 2), OC-192c/OC-48c SONET, STM-64/STM-16 SDH, POS and DWDM telecommunications networks.

The NIC 10G is the most compact and cost-effective diagnostic platform for OTN and 10/2.5 Gbps on the market. An intuitive touch-sensitive GUI enables technicians of any experience level to effectively operate the NIC 10G, minimizing training costs.

Equipped with both OTN OTU 1 and OTU 2 capabilities, the NIC 10G is more comprehensive, significantly lighter, and less expensive than competing models. Its flexible software/firmware-based design lets you configure the NIC 10G to meet your current needs, then upgrade quickly and inexpensively as your network environment changes.

The NIC 10G is also fully interoperable with the entire NIC product line, providing a broad range of diagnostic capabilities—from DS0/64 Kbps through 10.7/10G rates, including OTN, GigE, ATM, POS, and OSA.

Combining innovative features, functionality and performance into a single cost-effective product, the NIC 10G is the most advanced high-speed testing platform available today.



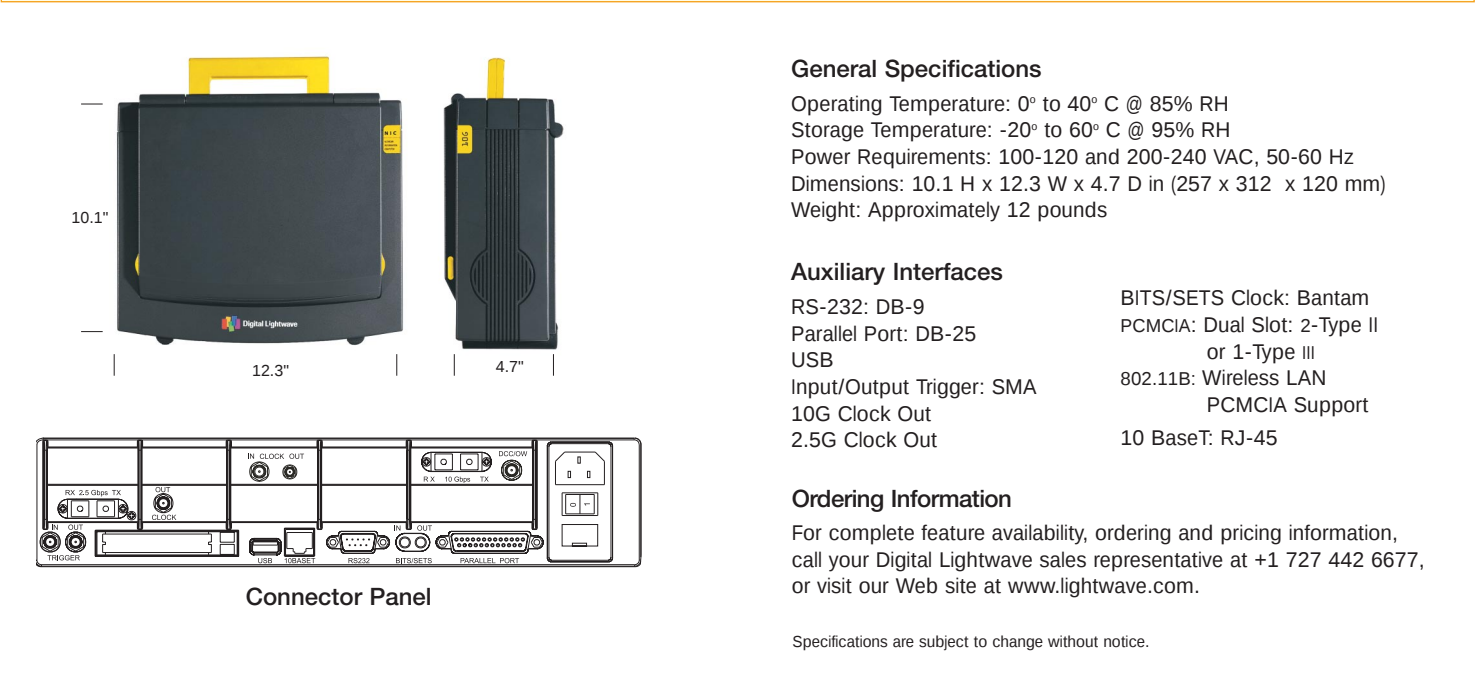
Network Information Computer (NIC 10G)

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

Major Features:

- OC-192/STM-64 and OC-48/STM-16 SONET/SDH protocol processors (includes concatenated payload support)
- 10.7 Gbps OTU 2 analysis (optional)
- 2.67 Gbps OTU 1 analysis (optional)
- FEC code RS (255/239)
- OC-48/STM-16 add/drop
- OC-192/STM-64 through-mode with overhead manipulation
- OC-192/STM-64 1310 or 1550 nm wavelength laser
- OC-48/STM-16 1310 nm, 1550 nm or switchable wavelength laser option
- Packet over SONET/SDH (POS) for 10G rates (optional)
- OC-192/STM-64 to STS-1/STM-0 mapping (optional)
- Round-trip delay measurement capabilities at 2.5 and 10 Gbps
- Auto configuration to pattern level
- Tandem connection monitoring (TCM), automatic protection switching (APS), and STS/AU pointer sequencing
- Alarm/error generation and analysis
- Built-in optical power and frequency measurement
- Troublescan
- A 10.4-inch active matrix color display with touch screen
- Graphical switch matrix, graphical results
- Remote control GUI
- SCPI over GPIB, TCP/IP, or RS-232c
- Software/firmware upgradeable via Web

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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 VAC, 50-60 Hz
- Dimensions: 10.1 H x 12.3 W x 4.7 D in (257 x 312 x 120 mm)
- Weight: Approximately 12 pounds

Auxiliary Interfaces

- RS-232: DB-9
- Parallel Port: DB-25
- USB
- Input/Output Trigger: SMA
- 10G Clock Out
- 2.5G Clock Out
- BITS/SETS Clock: Bantam
- PCMCIA: Dual Slot: 2-Type II or 1-Type III
- 802.11B: Wireless LAN
- PCMCIA Support
- 10 BaseT: RJ-45

Ordering Information

For complete feature availability, ordering and pricing information, call your Digital Lightwave sales representative at +1 727 442 6677, or visit our Web site at www.lightwave.com.

Specifications are subject to change without notice.

Connector Panel

Port Type	Description / Label
IN	CLOCK
OUT	CLOCK
RX	2.5 Gbps TX
TX	2.5 Gbps RX
DCC	LOW
IN	10 Mbps TX
OUT	10 Mbps RX
IN	OUT
TRIGGER	(Button)
USB	(Port)
PARALLEL PORT	(Port)
PCMCIA	(Slot)

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10.1"

12.3"

4.7"

Connector Panel

The connector panel diagram shows the following ports and connections:

- RX 2.5 Gbps TX**: Two ports for data transmission.
- OUT**: A single output port.
- CLOCK**: A port for clock signal.
- IN**: A port for input signal.
- OUT**: A port for output signal.
- TRIGGER**: A port for triggering the device.
- USB**: A USB port for data transfer.
- RS232**: A serial port for data transfer.
- BITS/SETS**: A port for clock signal.
- PARALLEL PORT**: A port for parallel data transfer.
- DCC/OW**: A port for data transfer.
- IN**: A port for input signal.
- OUT**: A port for output signal.
- 10 Gbps TX**: A port for high-speed data transmission.
- PCMCIA**: A port for the PCMCIA card.

10.1"

12.3"

4.7"

Connector Panel

RX 2.5 Gbps TX
OUT
CLOCK
IN OUT
TRIGGER
USB
PARALLEL
RS232
BITS/SETS
10 BaseT
IN OUT
DCC/OW
IN 10 Gbps TX
OUT



 Digital Lightwave® www.Lightwave.com info@Lightwave.com	Americas	Europe/Middle East/Africa	Asia/Pacific Rim
	Corporate Headquarters	Eastway Enterprise Centre	Braeside Grove
	15550 Lightwave Drive	7 Paynes Park	Unit 4, Sibthorpe Street
	Clearwater, FL 33760	Hitchin Hertfordshire	Braeside, Victoria,
	Toll free: +1877 442 DIGL	England SG5 1EH	Australia 3195
T: +1 727 442 6677	T: +44 (0) 1462 429719	T: +61.3.9587 4900	
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Digital Lightwave provides industry-leading products, technologies, and services for deploying and managing communications networks. Telecommunications service providers and equipment manufacturers rely on our offerings to develop, install, maintain, and manage high-performance 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.

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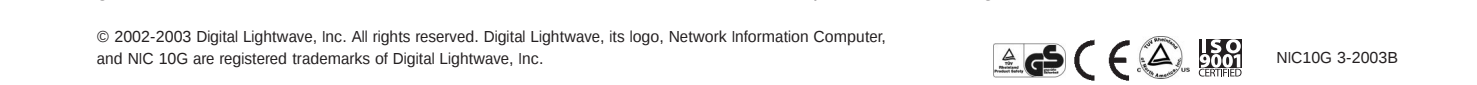
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