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Data Sheet

August 13, 2026

IXIA

Ixia NOVUS10/1GE16DP

The Ixia NOVUS10/1GE16DP is a high-density Layer 2-7 network and application testing load module delivering 16 Dual-PHY ports per module. Each port operates at 10 Gigabit Ethernet (10GbE), 1 Gigabit Ethernet (1GbE), or 100 Megabit Ethernet (100MbE) across both fiber (SFP+) and copper (10GBASE-T RJ45) interfaces simultaneously. The module generates full line-rate L2/3 traffic and true L4-7 application traffic with stateful generation up to 480 Gbps in a 12-slot chassis configuration. Supported Speeds: 10 Gigabit Ethernet (10GbE), 1 Gigabit Ethernet (1GbE), 100 Megabit Ethernet (100MbE) Maximum Density: Up to 192 × 10GbE/1GbE/100MbE Ethernet test ports in a single 12-slot XGS chassis Dual-PHY capability enables simultaneous testing of SFP+ and 10GBASE-T RJ45 ports at different speeds on the same module



MODEL

**Ixia
NOVUS10/1GE16DP**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

NOVUS10/1GE16DP

LISTING

<https://aumictechlabs.com/products/novus10-1ge16dp-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ixia NOVUS10/1GE16DP is a high-density Layer 2-7 network and application testing load module delivering 16 Dual-PHY ports per module. Each port operates at 10 Gigabit Ethernet (10GbE), 1 Gigabit Ethernet (1GbE), or 100 Megabit Ethernet (100MbE) across both fiber (SFP+) and copper (10GBASE-T RJ45) interfaces simultaneously. The module generates full line-rate L2/3 traffic and true L4-7 application traffic with stateful generation up to 480 Gbps in a 12-slot chassis configuration. Technical Specifications Port Density: 16 Dual-PHY ports per module

Supported Speeds: 10 Gigabit Ethernet (10GbE), 1 Gigabit Ethernet (1GbE), 100 Megabit Ethernet (100MbE) Interface Types: SFP+ (fiber), 10GBASE-T RJ45 (copper) Maximum Density: Up to 192 × 10GbE/1GbE/100MbE Ethernet test ports in a single 12-slot XGS chassis Stateful Traffic Generation: Up to 480 Gbps in a 12-slot chassis Stateless Traffic Emulation: Up to 160 Gbps per Novus ONE appliance Stateful Application Traffic Emulation: Up to 20 Gbps per Novus ONE appliance Real-Time Latency Measurement: Resolution down to 2.5 ns Key Features Dual-PHY capability enables simultaneous testing of SFP+ and 10GBASE-T RJ45 ports at different speeds on the same module Hardware packet capture and decode with extensive port statistics Advanced sequence checking for protocol validation Full line-rate traffic generation and analysis at L2/3 True L4-7 application traffic generation with subscriber emulation Support for voice, video, storage, and access protocols Protocol Emulation routing and bridging protocol emulation Routing, switching, MPLS, IP multicast, and Carrier Ethernet protocols Data center Ethernet protocol emulation IxLoad L4-7 support including voice, video, and access protocols Quality of Experience (QoE) subscriber and protocol emulation Typical Applications ASIC design and FPGA validation Hardware switch fabric evaluation Data center test scenarios Routing and switching validation Application performance testing across L2-7 Compatibility & Integration Installs in Keysight XGS series chassis: XGS12-SD, XGS12-HSL, XGS2-SD, XGS2-HSL, XGS2-SDL, and XGS12-SDL. Integrates with Keysight IxNetwork and IxLoad for protocol emulation and application traffic generation.

Features & description

From manufacturer datasheet

Features

- Only Dual-PHY SFP+ plus 10GBASE-T 10/1/100M density in this class
- Independent speeds on SFP+ and RJ-45 on the same module
- 4:1 aggregation assigns four ports of CPU/memory to one port
- Line-rate hardware capture and 2.5 ns latency resolution
- Field upgrade path from NOVUS10/1GE8DP (944-1143) to 16 ports
- 192 ports of 10GE/1GE/100M in a 12-slot XGS12 chassis

NOVUS101GE16DP Characteristics / Specifications

PARAMETER	VALUE
Model	NOVUS10/1GE16DP
Manufacturer	Ixia / Keysight
Instrument Type	Ethernet load module
Part Number	944-1142
Alias	NOVUS10/1GE16DP; NOVUS 10/1GE16DP
Slot Width	1
Port Count	16 Dual-PHY
Physical Interfaces	16 x SFP+ and 16 × 10GBASE-T RJ-45
Port Speeds	10GE, 1GE, and 100M
Users Normal Mode	up to 16 per module
Users Aggregation Mode	up to 4 per module
CPU Memory	multicore, 2 GB per port pair
Aggregation Ratio	4 ports of CPU/memory to 1 port
Aggregation L47 Rate	up to 16 Gbps stateful
Cable Media	CAT5e, CAT6, CAT6A
Module Length	17.3 in (440 mm)
Module Width	1.3 in (33 mm)
Module Height	12.0 in (305 mm)
Module Weight	12.9 lb (5.85 kg)
Shipping Weight	19.7 lb (8.94 kg)
Operating Temperature	5 C to 40 C
Storage Temperature	5 C to 50 C
Humidity	0 to 85 percent noncondensing
XGS12 Port Capacity	192 ports of 10GE, 1GE, or 100M
XGS2 Port Capacity	32 ports of 10GE, 1GE, or 100M

PARAMETER	VALUE
Max Streams Per Port	512
Max Streams DCE	256
Min Frame 10GE	49 bytes full rate without UDF; 60 bytes with UDF
Min Frame 1GE 100M	49 bytes full line rate
Max Frame Size	16384 bytes
Max Frame DCE	9216 bytes
PFC Queues	8 line-rate queues to 2500 byte; 1 queue to 9216 byte
UDF Count	up to five 32-bit wide
Value List Max	2M across 5 UDFs
Sequence Max	512
Latency Resolution	2.5 ns
Line Clock Adjust	-100 to +100 ppm
Trackable Rx Flows	512k with Tx/Rx sync and sequence checking
Capture Buffer	512 MB per port
Min Capture Frame	64 bytes full rate into capture; 49 bytes below line rate
Related 8 Port	NOVUS10/1GE8DP part 944-1143
Related 1GE Only	NOVUS1GE16DP part 944-1146
Chassis Examples	XGS2-SD 940-0010; XGS12-SD 940-0011

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	5 C to 50 C
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Chassis Examples	XGS2-SD 940-0010; XGS12-SD 940-0011 Notes Specs from the Keysight/Ixia Novus 10/1 3-Speed Ethernet Load Modules data sheet (NOVUS10/1GE16DP column, 944-1142). Confirm IxOS version, SFP+

PARAMETER	VALUE
	optics population, and whether the card is 16-port or 8-port-enabled hardware.

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.

performance chassis.

Applications

High-density switch and ASIC fabric test; simultaneous copper and fiber 10G/1G/100M; RFC benchmark and L2/3 protocol scale; L4-7 subscriber/application emulation; data-center Ethernet and low-latency device characterization.

Key Features

- Only Dual-PHY SFP+ plus 10GBASE-T 10/1/100M density in this class
- Independent speeds on SFP+ and RJ-45 on the same module
- 4:1 aggregation assigns four ports of CPU/memory to one port
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- Field upgrade path from NOVUS10/1GE8DP (944-1143) to 16 ports
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Notes

Specs from the Keysight/Ixia Novus 10/1 3-Speed Ethernet Load Modules data sheet (NOVUS10/1GE16DP column, 944-1142). Confirm IxOS version, SFP+ optics population, and whether the card is 16-port or 8-port-enabled hardware.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.