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Data Sheet

August 1, 2026

IXIA

Ixia 1600 T Traffic Generator/Performance Analyzer

Ixia 1600T Traffic Generator / Performance Analyzer Chassis The Ixia 1600T is a 16-slot modular traffic generator and performance analyzer chassis with an integrated PC test controller running IxOS and the IxExplorer client. It is the larger companion to the Ixia 400T chassis and forms the platform for Ixia load modules that generate and analyze network traffic for performance, functional, and conformance testing. Up to 256 chassis can be daisy-chained with synchronized timing (about 10 ns) for very large multi-port test beds. The Ixia 1600T is a 16-slot modular traffic generator and performance analyzer chassis with an integrated PC test controller running IxOS and the IxExplorer client. It is the larger companion to the Ixia 400T chassis and forms the platform for Ixia load modules that generate and analyze network traffic for performance, functional, and conformance testing. Up to 256 chassis can be daisy-chained with synchronized timing (about 10 ns) for very large multi-port test beds. Router/switch performance validation, RFC-style throughput and latency testing, protocol conformance, multi-port traffic load generation, Packet over SONET (POS), Ethernet (10/100, Gigabit, 10 Gigabit with appropriate modules), and large-scale synchronized lab automation via Tcl scripting.



MODEL

Ixia 1600T

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1600T

LISTING

<https://aumictechlabs.com/products/1600t-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Ixia 1600T Traffic Generator/Performance Analyzer is a 16-slot rack-mountable platform for network testing, traffic generation, and performance validation. It delivers high-density port configurations supporting Ethernet and Packet over SONET interfaces, with traffic generation capabilities up to 256 streams per port and 32,000 flows. The system measures key performance metrics, simulates diverse network conditions, and scales to 256 daisy-chained chassis with 10 nanosecond synchronization accuracy for enterprise-grade deployments.

Technical Specifications

Chassis: 16-slot rack-mountable
Port Configurations: Up to 32 POS ports, 32 Gigabit Ethernet ports, or 64 × 10/100 Mbps Ethernet ports
Scalability: Daisy-chaining supports up to 256 chassis with 10 nanosecond synchronization accuracy
Traffic Streams: 256 streams per port; 32,000 flows per port
Packet Generation: Valid, undersized (12 bytes minimum), oversized (up to 65,536 bytes), and error packets (alignment, dribble bit, bad CRC, no CRC)
Address Manipulation: MAC and IP address incrementing, decrementing, and randomization for simultaneous Layer 2 and Layer 3 testing
Checksum Calculation: Real-time IP checksum with support for millions of IP addresses
Protocol Support: IP, UDP, IPX, TCP, IGMP, ARP, DHCP, RIP, ISL, MPLS, VLAN 802.1pq, OSPF
Signaling: ARP requests, Ping requests, IGMP requests and responses per port
Dimensions: 17.5" × 15.7" × 20.4" (44.5 × 39.9 × 52 cm)
Weight: 47 lbs (21 kg)
Power: 20 AMP @ 110 V or 10 AMP @ 220 V, 60/50 Hz; maximum 2400 W

Key Features

- Configurable packet error injection for protocol validation
- Real-time performance monitoring and analysis
- Throughput and latency benchmarking
- Load-based network threshold identification
- IxExplorer MS-Windows control software with Tcl API
- Optional test suites: RFC 2544, RFC 2285, RFC 2432, QoS, ATSS, MATS
- Typical Applications
- Switch and router performance validation
- Network infrastructure optimization prior to deployment
- Multicast and QoS protocol testing
- Enterprise network capacity planning

Compatibility & Integration

Controlled via IxExplorer MS-Windows software. Server software provided; client applications available from Ixia for download. Tcl scripting supported for automated test execution.

Features & description

From manufacturer datasheet

Features

- 16 load-module slots
- Integrated PC controller with IxOS and IxExplorer
- Daisy-chain up to 256 chassis with sync in/out (about 10 ns synchronization)
- Supports POS, Gigabit Ethernet, 10/100 Ethernet, 10 Gigabit Ethernet, PoE, ATM, and other interfaces via load modules
- Example port density (module dependent): up to about 32 POS ports, 32 Gigabit Ethernet ports, or 64 10/100 Ethernet ports per chassis class listings
- Built-in Windows controller for configuration and statistics
- Automation via Tcl for lab integration

1600T Characteristics / Specifications

PARAMETER	VALUE
Model	1600T
Manufacturer	Ixia
Instrument Type	16-slot traffic generator / performance analyzer chassis
Slots	16
Controller	Integrated PC; Windows 2000 Pro class OS in published tables (later units may vary)
Dimensions	Approximately 17.5 inWx 15.7 inHx 20.4 in D (44.5 × 39.9 x about 51.8 cm class)
Weight	Approximately 47 lb (21 kg)
Power	About 20 A at 110 V / 10 A at 220 V, 50/60 Hz (published)
Operating Temperature	0 C to 40 C (32 F to 104 F)
Storage Temperature	0 C to 50 C
Humidity	0% to 85% non-condensing (operating and storage) I/O And Synchronization
Mouse/keyboard	PS/2
Monitor	HD-DB15 VGA (required for local console)
Parallel	DB25 female
Ethernet	RJ45 10/100 Mbps management
Serial	DB9 male
Sync In / Sync Out	RJ14
Trigger Out	BNC
Timing	Internal or synchronized to another Ixia chassis Operational Notes Actual interface rates and port counts depend entirely on installed load modules. Provide adequate AC power and cooling for a fully loaded chassis. Use manufacturer sync cables when daisy-chaining. Requires display (SVGA) for local operation unless controlled remotely per IxOS configuration.
Example port density (module dependent)	up to about 32 POS ports, 32 Gigabit Ethernet ports, or 64 10/100 Ethernet ports per chassis class listings

1600T Specifications

PARAMETER	VALUE
Key Features	- 16 load-module slots
Technical Specifications	Model: 1600T
I/O And Synchronization	Power: IEC 320 male

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	0 C to 50 C
Operating temperature	0 C to 40 C (32 F to 104 F)
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Humidity	0% to 85% non-condensing (operating and storage)
Power	IEC 320 male
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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.

Performance Analyzer Chassis

Overview

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Applications

Router/switch performance validation, RFC-style throughput and latency testing, protocol conformance, multi-port traffic load generation, Packet over SONET (POS), Ethernet (10/100, Gigabit, 10 Gigabit with appropriate modules), and large-scale synchronized lab automation via Tcl scripting.

Key Features

- 16 load-module slots
- Integrated PC controller with IxOS and IxExplorer
- Daisy-chain up to 256 chassis with sync in/out (about 10 ns synchronization)
- Supports POS, Gigabit Ethernet, 10/100 Ethernet, 10 Gigabit Ethernet, PoE, ATM, and other interfaces via load modules
- Example port density (module dependent): up to about 32 POS ports, 32 Gigabit Ethernet ports, or 64 10/100 Ethernet ports per chassis class listings
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Operating Temperature	0 C to 40 C (32 F to 104 F)
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I/O And Synchronization

Specifications

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Monitor	HD-DB15 VGA (required for local console)
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Timing	Internal or synchronized to another Ixia chassis

Operational Notes

Actual interface rates and port counts depend entirely on installed load modules. Provide adequate AC power and cooling for a fully loaded chassis. Use manufacturer sync cables when daisy-chaining. Requires display (SVGA) for local operation unless controlled remotely per IxOS configuration.

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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sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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30-day returns
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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.