

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 13, 2026

IXIA

Ixia XM2 with Optixia HSE40/100GETSP1-01, K2 40GE and 100GE Ethernet Test Module

The Ixia XM2 with Optixia HSE40/100GETSP1-01 is a dual-PHY 40 Gigabit and 100 Gigabit Ethernet load module engineered for performance, functional, and conformance testing of high-speed network infrastructure. Operating per IEEE 802.3ba standards, this module delivers full IP layer 2-7 measurement and analysis alongside layer 1 BERT capabilities, enabling comprehensive validation across both 40GBASE-R and 100GBASE-R interfaces. The dual-speed architecture supports concurrent or sequential 40GbE and 100GbE testing on a single module, with CFP MSA-compliant transceiver support and CFP interface connectivity to Ixia XM2 portable chassis. Aumictech offers NIST-traceable calibration and repair for the Ixia HSE40/100GETSP1-01. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1-3 business days after receipt. This Ixia HSE40/100GETS



MODEL

**Ixia
HSE40/100GETSP1-
01**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**HSE40/100GETSP1-
01**

LISTING

[https://aumictechlabs.
com/products/hse40-1
00getsp1-01-2/](https://aumictechlabs.com/products/hse40-100getsp1-01-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Ixia XM2 with Optixia HSE40/100GETSP1-01 is a dual-PHY 40 Gigabit and 100 Gigabit Ethernet load module engineered for performance, functional, and conformance testing of high-speed network infrastructure. Operating per IEEE 802.3ba standards, this module delivers full IP layer 2-7 measurement and analysis alongside layer 1 BERT capabilities, enabling comprehensive validation across both 40GBASE-R and 100GBASE-R interfaces. The dual-speed architecture supports concurrent or sequential 40GbE and 100GbE testing on a single module, with CFP MSA-compliant transceiver support and CFP interface connectivity to Ixia XM2 portable chassis.

Technical Specifications

Module Type: 40 and 100 Gigabit Ethernet load module; dual-PHY support

Interface Standards: IEEE 802.3ba 40GBASE-R and 100GBASE-R

Physical Interface: CFP; CFP MSA-compliant transceiver module support

Measurement Scope: Layers 1-7 analysis; layer 1 unframed BERT for 40 Gb/s and 100 Gb/s

Physical Layer Testing: IEEE 802.3ba PCS capability; PCS lane BERT with error injection; 802.3ba PCA and CAUI/XLAUI bus validation

Signal Insertion & Measurement: User-selectable transmit-side skew insertion (up to 3 microseconds); receive-side deskew measurement (up to 6 microseconds)

PRBS Support: Wide-range PRBS pattern library

Error Injection: PCS lane marker and payload field injection capability

Key Features

Transceiver qualification for parallel optics including 100GBASE-LR4 and 100GBASE-SR10

Stateful network testing including IPTV, VoIP, video on demand, multimedia streaming services

High-scale routing emulation with advanced services capability

Bandwidth profiling: uniform and bursty profiles with interleaving

Packet generation and editing with flow emulation

Data modifiers: fixed, increment, decrement, value lists, range lists, cascade, random, and chained modes

Multiple frame length support; CRC error, data integrity error, and sequence checking error injection

User-definable match-term patterns with mask and offset; frame length comparator

Typical Applications

Ethernet transceiver validation at 40GbE and 100GbE speeds

Physical layer corner-case testing and PCS lane analysis services and routing emulation

Advanced network equipment conformance testing

Compatibility & Integration

Designed for Ixia XM12 and XM2 chassis platforms

XM2 is a 2-slot portable chassis supporting 10GbE, 40GbE, 100GbE, POS, and ATM modules

Load module form factor with backward compatibility adapter support for legacy Ixia systems

Features & description

From manufacturer datasheet

Features

- Dual-speed 40GE and 100GE (K2)
- 1-port module occupying 2 slots
- CFP interface (QSFP+ on related 40GE variants)
- Compatible with Optixia XM12 and XM2 chassis
- PCS lane mapping / skew; L1 BERT
- Per-port CPU 1 GHz / 2 GB; large capture buffer

Applications

- 40GE / 100GE NE and switch validation
- IEEE 802.3ba PCS lane skew and mapping tests
- L2-L7 performance and stateful services testing
- Layer 1 BERT and wire-speed packet generation

HSE40100GETSP1 Characteristics / Specifications

PARAMETER	VALUE
Model	HSE40/100GETSP1-01
Manufacturer	Ixia
Instrument Type	40/100 Gigabit Ethernet Load Module
Product Family	Optixia HSE / K2
Ports	1 port (dual-speed)
Chassis Slots Occupied	2
Interface Standards	IEEE 802.3ba; 40GBASE-R; 100GBASE-R
Supported Transceiver	Pluggable CFP (module without CFP transceiver)
Chassis Compatibility	OPTIXIA XM12-02; OPTIXIA XM2-02
Layer Support	L1 BERT; L2/3 data plane; L4–7 applications
PCS Lane Mapping	All combinations supported
PCS Lane Skew Transmit	0 to 3 μ s
PCS Lane Skew Receive	up to 6 μ s
Packet Generation	Wire-speed with timestamps, sequence, integrity, group signatures
Routing Emulation	L2/3 high-scale
BERT	PRBS patterns; lane stats; error injection
Test Applications	IxNetwork and related Ixia suites
Form	Dual-PHY high-speed Ethernet module Notes Specs from Ixia 40/100 Gigabit Ethernet Load Modules datasheet and HSE40/100GETSP1-01 reseller descriptions. Confirm XM2 pairing and installed CFP/optics separately.

HSE40100GETSP1 Specifications

PARAMETER	VALUE
Applications	- 40GE / 100GE NE and switch validation
Key Features	- Dual-speed 40GE and 100GE (K2)
Technical Specifications	Model: HSE40/100GETSP1-01

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 and stateful services testing

- Layer 1 BERT and wire-speed packet generation

Key Features

- Dual-speed 40GE and 100GE (K2)
- 1-port module occupying 2 slots
- CFP interface (QSFP+ on related 40GE variants)
- Compatible with Optixia XM12 and XM2 chassis
- PCS lane mapping / skew; L1 BERT
- Per-port CPU 1 GHz / 2 GB; large capture buffer

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	HSE40/100GETSP1-01
Manufacturer	Ixia
Instrument Type	40/100 Gigabit Ethernet Load Module
Product Family	Optixia HSE / K2
Ports	1 port (dual-speed)
Chassis Slots Occupied	2
Interface Standards	IEEE 802.3ba; 40GBASE-R; 100GBASE-R
Supported Transceiver	Pluggable CFP (module without CFP transceiver)
Chassis Compatibility	OPTIXIA XM12-02; OPTIXIA XM2-02

Per-Port CPU: 1 GHz
Per-Port Memory: 2 GB
Per-Port Capture Buffer: 1.4 GB class

Specifications

PARAMETER	VALUE
Layer Support	L1 BERT; L2/3 data plane; L4-7 applications
PCS Lane Mapping	All combinations supported
PCS Lane Skew Transmit	0 to 3 μs
PCS Lane Skew Receive	up to 6 μs
Packet Generation	Wire-speed with timestamps, sequence, integrity, group signatures
Routing Emulation	L2/3 high-scale
BERT	PRBS patterns; lane stats; error injection

PARAMETER	VALUE
Test Applications	IxNetwork and related Ixia suites
Form	Dual-PHY high-speed Ethernet module

Notes

Specs from Ixia 40/100 Gigabit Ethernet Load Modules datasheet and HSE40/100GETSP1-01 reseller descriptions. Confirm XM2 pairing and installed CFP/optics separately.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 13, 2026

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