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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight APS-100/400GE Series

The Keysight APS-100/400GE Series is a modular Layer 4–7 application and security test platform engineered for hyperscale data center and service provider environments. It replicates real-world network conditions to validate infrastructure performance, security devices, policies, and processes across encrypted traffic workloads and high-speed 400GE interfaces. Compatibility & Integration Supports BreakingPoint, IxLoad, and CyPerf applications through APS-M1010 and APS-M8400 controllers. Aumictech offers NIST-traceable calibration and repair for the Agilent / Keysight APS-100/400GE Series. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic threshold verification, sample rate and timing accuracy, and trigger and synchronization bus functional verification. NI CompactRIO and PXI chassis also undergo backplane trigger

**MODEL****Agilent / Keysight
APS-100/400GE
Series****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****APS-100/400GE
Series****LISTING**<https://aumictechlabs.com/products/aps-100-400ge-series-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight APS-100/400GE Series is a modular Layer 4–7 application and security test platform engineered for hyperscale data center and service provider environments. It replicates real-world network conditions to validate infrastructure performance, security devices, policies, and processes across encrypted traffic workloads and high-speed 400GE interfaces. Technical

Specifications Transport Layer Security (TLS) Performance: Up to 100K TLS connections/second (APS-ONE-100 standalone) Up to 1.6M TLS connections/second (with APS-M8400 controller) Up to 3.4M TLS connections/second (with APS-M1010 controller) 3.2M concurrent TLS connections (standalone) 51M concurrent TLS connections (with APS-M8400 or APS-M1010) 150 Gbps bulk encryption throughput (standalone) 2.4 Tbps TLS throughput (with APS-M8400 or APS-M1010) 1.78 Tbps encrypted throughput (ten APS-ONE-100 nodes with APS-M1010) Elephant Flow & Encrypted Traffic: Up to 75 Gbps per single TCP connection (standalone) Up to 3.2 Tbps L4-7 traffic (stacked APS-ONE-100 appliances with APS-M8400) Port Configuration: APS-ONE-100: Four QSFP28 100GE front I/O ports per appliance APS-M8400: Eight 400GE QSFP-DD native I/O ports Multi-speed support: 400GE, 100GE, 50GE, 40GE, 25GE, 10GEKey Features Modular compute nodes (APS-ONE-100) deployable individually or stacked for scaling Dual controller options: APS-M1010 (manages up to 10 compute nodes) or APS-M8400 (native 400GE aggregation) Pay-as-you-grow architecture supporting evolving test demands Centralized management and software updates via controllersTypical Applications Network infrastructure validation under encrypted traffic loads Security appliance and policy testing Data center performance characterization at scale 400GE interface qualificationCompatibility & Integration Supports BreakingPoint, IxLoad, and CyPerf applications through APS-M1010 and APS-M8400 controllers.

APS100400GESERIES Characteristics / Specifications

PARAMETER	VALUE
Model	APS-100/400GE Series
Instrument Type	Application and security test platform
Controller Model	APS-M1010
Compute Appliance	APS-ONE-100
High Density Appliance	APS-M8400 8×400GE QSFP-DD
One Hundred Ge Ports	up to four QSFP28 100GE interfaces per APS-ONE-100 test configuration
One Hundred Tls Cps	up to 100K TLS connections per second on one APS-ONE-100
One Hundred Tls Concurrent	3.2M TLS concurrent connections on one APS-ONE-100
One Hundred Encrypted Throughput	150 Gbps encrypted throughput on one APS-ONE-100
M1010 Node Count	up to 10 APS-ONE-100 appliances
M1010 Tls Cps	3.4M TLS connections per second
M1010 Tls Concurrent	45M TLS concurrent connections
M1010 Encrypted Throughput	1.78 Tbps encrypted throughput
M8400 Node Count	up to 16 compute nodes
M8400 Tls Cps	1.6M TLS connections per second
M8400 Tls Concurrent	51M concurrent TLS connections
M8400 Encrypted Throughput	2.4 Tbps encrypted throughput
Elephant Flow	up to 65 Gbps per single TCP connection
Multi Speed Modes	400/100/50/40/25/10GE
Management	single pane of glass, one IP address for the stacked system
Manufacturer	Keysight (Ixia application/security test lineage)
Literature	Keysight APS-100/400GE Series datasheet 3121-1315
Family	Keysight APS Series
Documentation Type	OEM APS-100/400GE datasheet
Brand Lineage	Ixia Keysight

PARAMETER	VALUE
System Role	hyperscale L4-7 and TLS test platform
Form Factor	appliance and stackable compute nodes
Use Case	NGFW and ADC hyperscale validation

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 is up to 65 Gbps per single TCP connection. Multi-speed modes include 400/100/50/40/25/10GE.	
Applications	
Hyperscale TLS, NGFW, and application-delivery validation at 100GE and 400GE for NEMs and data-center operators.	
Key Features	
APS-M8400 8x400GE QSFP-DD	
APS-ONE-100 standalone or stacked	
Up to 2.4 Tbps TLS throughput	
65 Gbps per TCP connection	
400/100/50/40/25/10GE modes	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	APS-100/400GE Series
Instrument Type	Application and security test platform
Controller Model	APS-M1010
Compute Appliance	APS-ONE-100
High Density Appliance	APS-M8400 8x400GE QSFP-DD
One Hundred Ge Ports	up to four QSFP28 100GE interfaces per APS-ONE-100 test configuration
One Hundred Tls Cps	up to 100K TLS connections per second on one APS-ONE-100
One Hundred Tls Concurrent	3.2M TLS concurrent connections on one APS-ONE-100
One Hundred Encrypted Throughput	150 Gbps encrypted throughput on one APS-ONE-100
M1010 Node Count	up to 10 APS-ONE-100 appliances
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M1010 Encrypted Throughput	1.78 Tbps encrypted throughput
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M8400 Tls Concurrent	51M concurrent TLS connections
M8400 Encrypted Throughput	2.4 Tbps encrypted throughput
Elephant Flow	up to 65 Gbps per single TCP connection
Multi Speed Modes	400/100/50/40/25/10GE
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Documentation Type	OEM APS-100/400GE datasheet
Brand Lineage	Ixia Keysight
System Role	hyperscale L4-7 and TLS test platform
Form Factor	appliance and stackable compute nodes
Use Case	NGFW and ADC hyperscale validation

Notes

From Keysight APS-100/400GE Series datasheet 3121-1315 (APS-M8400, APS-M1010, APS-ONE-100 TLS CPS/concurrent/throughput, 65 Gbps elephant flow, multi-speed 400/100/50/40/25/10GE). Per-SKU license counts are on the configuration guide, not invented here.

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>

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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.