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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight AresONE-S 400GE

The Keysight AresONE-S 400GE is a high-density 400 Gigabit Ethernet test platform housed in a 2RU fixed chassis. It delivers 6.4 Tbps of total line-rate traffic generation and supports stackable configurations for scaled testing up to 25.6 Tbps and beyond using the Metronome Timing System. The platform doubles port density versus the previous AresONE 400GE, available in 16-port and 8-port configurations, with both full and reduced performance models. Compatibility & Integration Supports 400GBASE-DR4, 400GBASE-FR4, 400GBASE-LR4, 400GBASE-SR8, and 400G-ZR coherent optics. Active electrical cable support enables PAM4-to-NRZ signal conversion for fan-out configurations. Aumictech offers NIST-traceable calibration and repair for the Agilent / Keysight AresONE-S. Calibration covers analog input channel accuracy and offset at all gain settings, analog output accuracy, digital I/O logic thresh

**MODEL****Agilent / Keysight
AresONE-S****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****AresONE-S****LISTING**<https://aumictechlabs.com/products/aresone-s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight AresONE-S 400GE is a high-density 400 Gigabit Ethernet test platform housed in a 2RU fixed chassis. It delivers 6.4 Tbps of total line-rate traffic generation and supports stackable configurations for scaled testing up to 25.6 Tbps and beyond using the Metronome Timing System. The platform doubles port density versus the previous AresONE 400GE, available in 16-port and 8-port configurations, with both full and reduced performance models. Field upgrades

from reduced to full performance are supported. Technical Specifications Form Factor: 2RU fixed chassis Traffic Generation: 6.4 Tbps total line-rate per chassis; stackable and synchronizable for testing up to 25.6 Tbps and beyond Port Density: 16-port or 8-port models Electrical Interface: 8×56 Gb/s PAM4 encoded technology Supported Ethernet Speeds: 1×400GE, 2×200GE, 4×100GE, 8×50GE (PAM4); 2×100GE, 4×50GE, 2×40GE, 8×25GE, 8×10GE (NRZ) Signaling: PAM4 and NRZ technologies on a single platform Interconnect Media: QSFP-DD MSA compatible; QSFP-DD optical transceivers up to Power Class 8 (20 W max); QSFP56; passive copper cables up to 3 m (QSFP-DD) or 5 m (QSFP28/QSFP+); active electrical and active optical cables Key Features Layer 1 BERT and PCS testing for PAM4 and NRZ signaling RS-544 (KP4) FEC for all PAM4 speeds (400/200/100/50 GE) RS-FEC and FC-FEC support for NRZ speeds per IEEE standards Auto-negotiation and link training support for passive copper cables up to 3 m Digital Optical Monitoring (DOM) for device status, electrical power, and temperature telemetry Field-upgradable PAM4 and/or NRZ performance options Complete L2/3 protocol emulation via IxNetwork software Typical Applications 400GE device validation and interoperability testing High-speed network infrastructure verification Layer 1 signal integrity and forward error correction analysis Multi-speed Ethernet platform qualification Compatibility & Integration Supports 400GBASE-DR4, 400GBASE-FR4, 400GBASE-LR4, 400GBASE-SR8, and 400G-ZR coherent optics. Active electrical cable support enables PAM4-to-NRZ signal conversion for fan-out configurations.

ARESONES Characteristics / Specifications

PARAMETER	VALUE
Model	AresONE-S
Instrument Type	400GE QSFP-DD high-density test chassis
Height	2RU fixed chassis
Port Speeds Pam	1×400, 2×200, 4×100, 8×50GE
Port Speeds Nrz	2×100, 4×50, 2×40, 8×25, 8×10GE
Speeds In One Platform	400/200/100/50/40/25/10GE
Traffic Generation	6.4 Tbps class
Eight Port Line Rate	3.2 Tbps of line-rate traffic
Multi Chassis	synchronize multiple chassis to test 25.6 Tbps and beyond
Interface	native QSFP-DD 400GE (PAM4)
Layers	L1-3 support
Full Performance 8 Port	AresONE S400GD-8PHW-8P-QDD (944-1302)
Reduced Performance 8 Port	AresONE S400GDR-8PHW-8P-QDD (944-1303)
Full Performance 4 Port	AresONE S400GD-8PHW-4P-QDD (944-1304)
Reduced Performance 4 Port	AresONE S400GDR-8PHW-4P-QDD (944-1305)
Form Factor	8-port or 4-port fixed chassis
Manufacturer	Keysight Ixia Agilent
Use Case	400GE density traffic test
Literature	Keysight AresONE-S-400GE QSFP-DD High-Density 8-Port Test System data sheet
Family	AresONE 400GE
Documentation Type	OEM AresONE-S data sheet
Brand Lineage	Ixia Keysight Agilent
System Role	high-density 400GE generator

ARESONES Specifications

PARAMETER	VALUE
Applications	High-density 10GE to 400GE L1-L3 traffic generation on QSFP-DD ports.
Key Features	2RU QSFP-DD fixed chassis
PAM4 400/200/100/50GE and NRZ 100/50/40/25/10GE	6.4 Tbps generation class

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 4-port and 8-port QSFP-DD models are listed (944-1302 through 944-1305).	
Applications	
High-density 10GE to 400GE L1-L3 traffic generation on QSFP-DD ports.	
Key Features	
2RU QSFP-DD fixed chassis	
PAM4 400/200/100/50GE and NRZ 100/50/40/25/10GE	
6.4 Tbps generation class	
3.2 Tbps line-rate on 8-port	
L1-3 support	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	AresONE-S
Instrument Type	400GE QSFP-DD high-density test chassis
Height	2RU fixed chassis
Port Speeds Pam4	1x400, 2x200, 4x100, 8x50GE
Port Speeds Nrz	2x100, 4x50, 2x40, 8x25, 8x10GE
Speeds In One Platform	400/200/100/50/40/25/10GE
Traffic Generation	6.4 Tbps class
Eight Port Line Rate	3.2 Tbps of line-rate traffic
Multi Chassis	synchronize multiple chassis to test 25.6 Tbps and beyond
Interface	native QSFP-DD 400GE (PAM4)
Layers	L1-3 support
Full Performance 8 Port	AresONE S400GD-8PHW-8P-QDD (944-1302)
Reduced Performance 8 Port	AresONE S400GDR-8PHW-8P-QDD (944-1303)
Full Performance 4 Port	AresONE S400GD-8PHW-4P-QDD (944-1304)
Reduced Performance 4 Port	AresONE S400GDR-8PHW-4P-QDD (944-1305)
Form Factor	8-port or 4-port fixed chassis
Manufacturer	Keysight Ixia Agilent
Use Case	400GE density traffic test
Literature	Keysight AresONE-S-400GE QSFP-DD High-Density 8-Port Test System data sheet
Family	AresONE 400GE

PARAMETER	VALUE
Documentation Type	OEM AresONE-S data sheet
Brand Lineage	Ixia Keysight Agilent
System Role	high-density 400GE generator

Notes

From Keysight AresONE-S-400GE QSFP-DD data sheet (2RU, seven speeds, 6.4 Tbps generation, 3.2 Tbps 8-port line-rate, model 944-1302 to 944-1305). Per-port packet rate, FEC, and transceiver support are in the AresONE-S hardware reference.

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 ·
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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.