

Powerful all-in-one Ethernet Test, Troubleshooting and Monitoring System

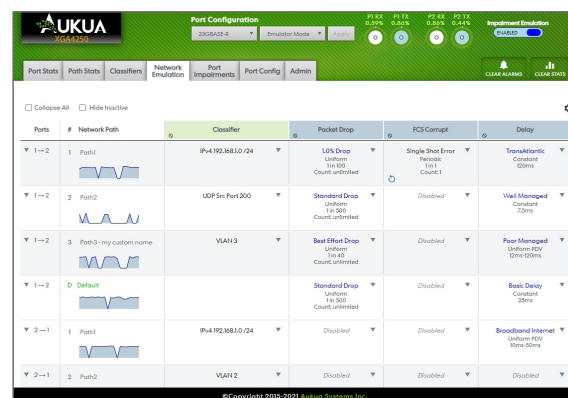
The Aukua XGA4250 is a flexible Ethernet testing, troubleshooting and monitoring system capable of multiple key applications from the same hardware-based system.

Inline Packet Capture and Protocol Analyzer provides 100% line rate, low latency, inline capture, protocol analysis, and custom traffic visibility.

Network Impairment Emulator precisely recreates the delay, congestion and impairments found in all real-world data and storage networks.

Traffic Generator and Analyzer creates line rate L2-L3 traffic or can accurately replay capture trace files with multiple streams of virtually any protocol mix.

The XGA4250, capable of Ethernet speeds of 25Gbps and beyond, is used by R&D, Test and Support engineers building, deploying and supporting Ethernet based IT, storage networking, mobile, defense, industrial, and time-sensitive (TSN) communications systems.



- HTML5 GUI and RESTful API
- Real-time statistics, alarms and graphical analysis
- No software installation or complex chassis configuration or setup required

Inline Packet Capture and Protocol Analyzer

- Network Visibility and Troubleshooting
- Layer 2+ Packet Capture
- Layer 1 PCS Capture & Analysis
- Analyze Traffic Throughput and Protocol performance
- Event Timing Analysis
- Latency Monitoring

Traffic Generator and Analyzer

- Throughput Performance Testing
- Bit Error Rate Testing
- Precise Real-time Latency Measurement and Analysis
- PCAP Player
- Functional Testing
- Energy Efficient Ethernet Testing

Network Impairment Emulator

- Delay and Network Impairment Congestion Emulation
- Real-world Application Performance Testing
- Reproduce Production Network Customer Issues in the Lab
- Predict Application Performance
- Functional and Negative Testing

10MHz and 1PPS Clk Ref,
Trigger In/Out ports

Stream capture to
USB 3.0 device or remote
SSH client



Aukua XGA4250 1U chassis

25GBASE-SR/LR/CR, 10GBASE-R, 5000BASE-R/X, 2500GBASE-R/X,
10GBASE-T, 5GBASE-T, 2.5GBASE-T, 1000BASE-X/T, FC32G, FC16G, and more..

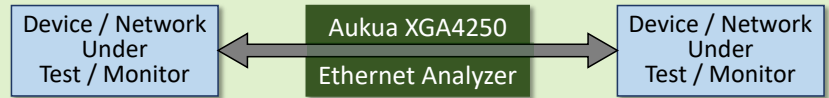
Unique 3-in-1 solution
with industry-leading
hardware-based architecture

Initial Version: 4 x SFP28 ports
(rates up to 28.05Gbps)

Feature Highlights

Inline Capture and Protocol Analyzer

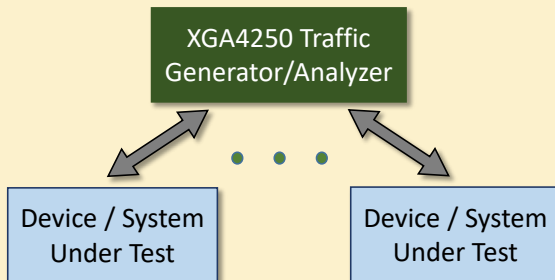
- Line rate Packet Capture - 28GB buffer (or stream to USB device or SSH client)
- Advanced L1-L7 filters and triggers
- Layer 1 Ethernet PCS capture & analysis
- Custom Filter Analyzer (real-time stats and graphical analysis)
- Latency Monitoring and Event Timing Analysis (1ns precision; bi-directional)



Connects transparently inline (bi-directionally) with system under test or monitor.
Optionally connect off a SPAN port or TAP.
(errored and malformed traffic can also be captured)

Traffic Generator and Analyzer

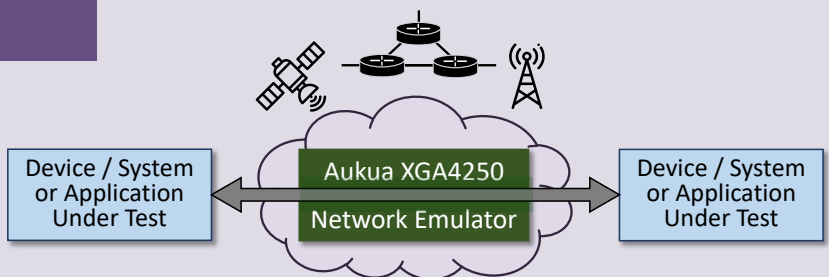
- L2-L3 line rate traffic generator
- Latency measurement (one-way and roundtrip)
- Bit Error Rate testing (L1-L4)
- Sequence Error testing
- PCAP Player
- Auto negotiation visibility
- Generate runs, short IPGs, control transmit clock and much more...



Multiport traffic generation and analysis as end point device.
(1ns precision latency measurement)

Network Impairment Emulator

- Dynamic real-time delay and impairment control
- Delay: fixed and variable latency (PDV)
- Bandwidth throttle control
- Link flap, bit errors, FCS errors
- Packet loss, corruption, modification, accumulate and burst, reorder, and more...
- Ethernet and Fibre Channel support



Connects inline (bi-directional) with the system under test and recreates real-world network delay and impairments.