

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

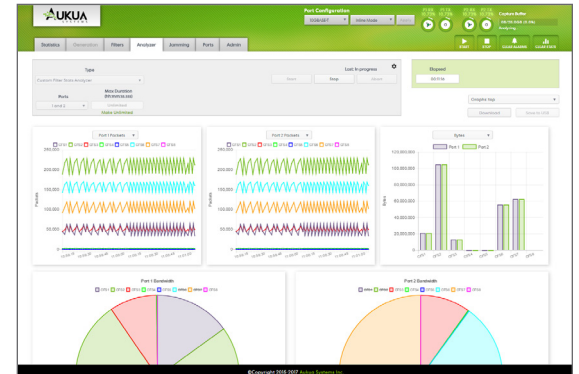
The Aukua MGA2510 is a flexible Ethernet testing, troubleshooting and monitoring system capable of multiple key applications from the same hardware-based system.

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 creates line rate L1-L3 traffic or can accurately replay capture trace files with multiple streams of virtually any protocol mix.

The MGA2510 is used by R&D, Test and Support engineers building, deploying and supporting Ethernet based IT, storage networking, automotive and industrial 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

- Throughput Performance Testing
- Bit Error Rate Testing
- Precise Real-time Latency Measurement and Analysis
- PCAP Player
- Functional 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 captures to
USB 3.0 device



Supports new
NBASE-T and IEEE802.3bz
2.5G/5GBASE-T

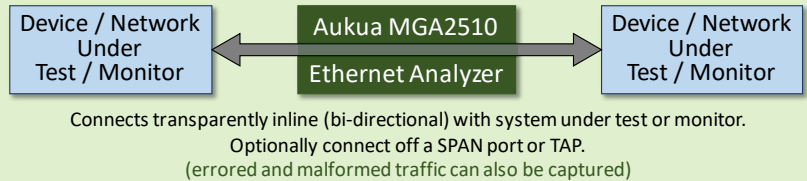
Both optical (SFP+) and
copper (RJ45) interfaces

Aukua MGA2510 1U chassis
10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, 10GBASE-T,
100BASE-FX, 1000BASE-X, 2500BASE-X, 2500BASE-R, 5000BASE-X, 5000BASE-R, 10GBASE-R,
USXGMII, SGMII, Automotive Ethernet (100BASE-T1, 1000BASE-T1)

Feature Highlights

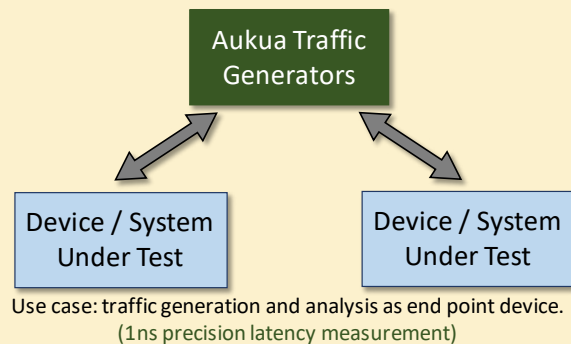
Inline Capture and Protocol Analyzer

- 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)



Traffic Generator

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



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, reorder, and more...

