Aukua MGA8410





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

The Aukua MGA8410 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 MGA8410 is used by R&D, Test and Support engineers building, deploying and supporting Ethernet based IT, storage networking, mobile, defense, automotive, industrial or space-based 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 I 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 and Negative 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

IOMHz and IPPS Clk Ref, Input/Output Trigger ports

...... • Aukua MGA8410 - 4 Port IU chassis

Line-rate capture or stream capture to USB 3.0 device or remote SSH client

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: 100/1000BASE-T1, 2.5G/5G/10GBASE-T1, 1000BASE-RH

4 Port SFP+ (optical, DAC, copper)

Unique 3-in-1 operation with

comprehensive interface support

from I0MbE to I0GbE





Aukua MGA8410 Feature Highlights

Inline Capture and Protocol Analyzer

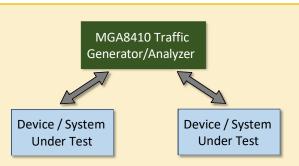
- Line rate Packet Capture 28GB buffer (or stream to USB device or SSH client)
- Advanced L1-L7 filters and triggers
- Layer I Ethernet PCS capture & analysis
- Custom Filter Analyzer (real-time stats and graphical analysis)
- Latency Monitoring and Event Timing Analysis (Ins precision; bi-directional)



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

Traffic Generator and Analyzer

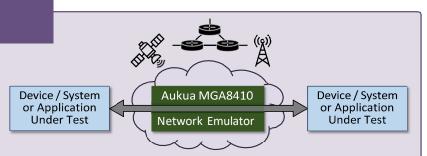
- L2-L3 line rate traffic generator
- Latency measurement (one-way and roundtrip)
- Bit Error Rate testing (L1-L4)
- Sequence Error testing
- PCAP Player
- Auto negotiation visibility
- Generate runts, short IPGs, control transmit clock and much more...



Traffic generation and analysis as end point device. (Ins 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...



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