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.

### Aukua MGA2510
- HTML5 GUI and RESTful API
- Real-time statistics, alarms and graphical analysis
- No software installation or complex chassis configuration or setup required

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**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

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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)

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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...