

# Ethernet Traffic Generator

## Feature Highlights

- ◆ First 100M, 1G, 2.5G, 5G, 10G Multigigabit Ethernet capable traffic generator and analyzer
- ◆ Combo copper (RJ45) and optical (SFP+) support
- ◆ Automotive Ethernet support (100/1000BASE-T1)
- ◆ L1-L3 traffic generation
- ◆ Bit Error Rate Testing (BERT): Layer 1, Layer 2, Layer 3
- ◆ Throughput testing
- ◆ Latency measurement - 1 nanosecond precision
- ◆ PCAP Replay feature
- ◆ **NEW:** Supports Energy Efficient Ethernet (EEE)
- ◆ Optional Inline Protocol Analyzer and Network Impairment Emulator modes
- ◆ Intuitive browser-based GUI with full RESTful API
- ◆ Real-time statistics and graphical analysis
- ◆ +/- 200ppm transmit offset control
- ◆ Bandwidth control (rate and burst settings)
- ◆ VLAN (802.1Q), Q-in-Q (802.1ad), MPLS support

## Overview

Aukua Systems' Ethernet Traffic Generator is an easy to use purpose-built Ethernet test system for R&D, Test and Support engineers building Ethernet based IT, storage networking and communications systems.

The Aukua Ethernet Traffic Generator can be used for Bit Error Rate Testing (BERT), throughput validation, latency measurement or monitoring as well as negative testing (impairment jamming) applications. Data rates from 10Mbps to 10Gbps Ethernet, including the new 2.5Gbps and 5Gbps Ethernet rates (IEEE 802.3bz) and Automotive Ethernet (100/1000BASE-T1, IEEE802.3bw/bp) rates are supported. The hardware-based architecture uniquely ensures accurate and repeatable results you can count on for stressing, validating, troubleshooting and debugging your systems and devices under test.

The Aukua MGA2510 architecture delivers true line-rate performance regardless of configuration as well as unmatched nanosecond timestamp and latency measurement accuracy. And the optional Inline Protocol Analyzer mode adds even more flexibility and value by providing full visibility into Layer 1 thru Layer 7 bidirectional protocol communications and event-timing analysis while transparently inline between devices under test.

Other important features include real-time statistics, alarms and graphical analysis, external reference clock inputs, the ability to upload and 'replay' packets from a capture file (pcap or pcapng), and a full RESTful API allowing complete automation capability, further enhancing productivity and integration with other development and testing tools.

Our hyperfocus on building a truly intuitive user-experience ensures that the Traffic Generator is useful every time; even for the occasional user. First time users are productively testing within the first 10 minutes, even without training or assistance! This is in part thanks to a single, simple user interface that is served up from the Generator system without any software installations required. No complex initial chassis configuration or setup is required.

**First Traffic Generator test solution to support the new 2.5G and 5G IEEE 802.3bz Ethernet rates!**

**The only test solution to support both inline as well as end-point testing modes for all Ethernet rates up to 10G!**



**Contact Aukua Systems to request the full  
Product Brief!**

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