

Ethernet Inline Protocol Analyzer

Feature Highlights

- ◆ Line rate performance packet capture & protocol analyzer for 25G/10G/5G/2.5G/1G Ethernet
- ◆ **TSN Application Support:**
 - IEEE 802.1Qbu & IEEE 802.3br MAC Frame Preemption Support
 - Full transparency with non-retimed pass-through mode
- ◆ Latency Monitoring Analyzer measures 1-way latency of [live network application packets](#)
- ◆ Live streaming capture mode (realtime capture view)
- ◆ 100% true line rate Layer 2 packet capture and Layer 1 (PCS) capture with viewer
- ◆ Industry's largest capture buffers
- ◆ Live user-filtered statistics
- ◆ Customizable capture and display filters with advanced triggering features
- ◆ Intuitive browser-based HTML interface with full RESTful API
- ◆ 1 nanosecond precision timestamps
- ◆ Hundreds of protocol decodes
- ◆ Fixed low-latency and transparent inline operation

Overview

Aukua Systems XGA4250 Ethernet Protocol Analyzer is a stand-alone system providing validation, debug analysis and visibility capabilities for R&D, Test and Support engineers building Ethernet based IT, storage networking and communications systems.

The Aukua Protocol Analyzer delivers true 100% line rate, low latency, inline L1 bit capture, L2+ packet capture and protocol analysis. Data rates from 1Gbps to 25Gbps Ethernet, including 2.5Gbps and 5Gbps Ethernet rates (IEEE 802.3bz) are supported. And with the industry's largest capture buffers as well as nanosecond timestamp accuracy, unmatched visibility into Layer 1 thru Layer 7 bidirectional protocol communications is provided.

Advanced packet capture features enable users to control when and how packets are captured. Quickly capture hard to find issues with user customizable capture filters and the ability to trigger captures on specific incoming events and packet content. And ensure that issues are fully captured by controlling how much of the capture buffer is dedicated to pre-trigger and post-trigger packets. Users can further leverage the large buffers by using the packet filtering and slicing features.

The capture trace viewer provides complete binary, hex and protocol decode views. Searching and display filters enable users to quickly locate packets of interest even within the largest trace files. Understanding the timing of events is possible with a rich set of timestamp viewing options such as absolute and interpacket arrival time.

Other important features include real-time statistics, alarms and a full API allowing complete automation capability, further enhancing productivity and integration with other development and testing tools.

Our hyperfocus on creating a truly intuitive user experience ensures that the Analyzer is immediately useful — 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 Analyzer system without any software installations required. No complex initial chassis configuration or setup required.

25Gb Ethernet line-rate capable packet capture and protocol Analyzer!



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

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Product description, features and specifications are subject to change without notice.
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XIPAPB-05025AW

