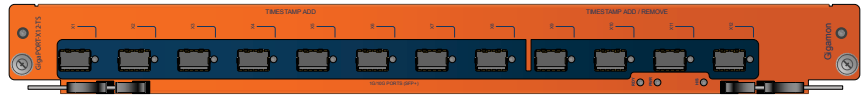




Product Brief

GigaPORT-X12-TS

HD SERIES



GigaVUE HD Series Intelligent Time-stamping Line Card

In response to escalating network performance and traffic volumes, accurately analyzing and controlling latency, jitter, and overall traffic transaction performance at nanosecond timing is becoming increasingly critical.

Supporting the PTPv2 timing standard (IEEE 1588), the GigaPORT-X12-TS line card precisely synchronizes time, dramatically improving the timing accuracy and visibility into enhanced latency, jitter, and bidirectional transaction performance.

The GigaPORT-X12-TS line card provides a variety of connectivity options, a point of ingress or egress for the fabric, and a platform that enables third-party management tools to leverage nanosecond accurate packet timing. Establishing a precision time stamp at the point of origin (at ingress to the fabric) enables accurate measurement of the time-of-transmission of the packet, thereby helping to understand latencies and distortions introduced due to buffering on intermediate hardware.

The twelve-port 10Gb SFP+ blade adds very accurate hardware- based time-stamp information at the ingress, prior to forwarding the packet through the fabric to performance and monitoring tools. The ingress port ID is also included as part of the stamp allowing far easier tracking of the origination of the traffic and data.

The GigaPORT-X12-TS line card is configured through the CLI or GUI and the addition of the stamp can be individually controlled on a per-port basis. This hot-swappable line card can be added to an existing GigaVUE HD Series chassis while in production, requiring no downtime.

The Gigamon GigaPORT-X12-TS line card complements the existing family of cards for the GigaVUE HD Series of Visibility Fabric™ nodes.

Quick Specs

- ✓ GigaVUE HD Series Line Card
- ✓ Nanosecond-scale accuracy and resolution
- ✓ Supports PTPv2 / IEEE 1588
- ✓ 120Gb line-rate throughput

Features & Benefits

- Nanosecond accurate time-stamp suffix added to traffic at point of ingress
 - Easy-to-read 10 byte addition to all stamped packets providing accurate data information in seconds and nanoseconds; ingress port information is optionally provided as well
 - Supports standards-based PTPv2 protocol
 - 120Gb of connectivity on one blade: 10Gb SFP+ supporting various media types
 - Enables out-of-band network analysis to occur at a single location, driving operational efficiency
-

Use Cases

- High Frequency Trading (HFT) environments, Market Exchanges, Finance, and Telecommunications
- Environments requiring enablement of powerful and highly accurate analysis of traffic latency, jitter, and performance
- Situations where enabling precision monitoring of network traffic, origination, and events are needed
- Applications and analysis tools requiring a hardware-based solution ensuring a highly accurate, precise stamp for timing-critical applications
- Applications where accurate information is required for time-based audit and compliance