

cPacket cVu 320G



32 x 10G SFP+ Traffic Monitoring Switch

Aggregation, Complete Packet Inspection Filtering, Automatic Flow Balancing

32 x 10G/1G ports
(SFP+/SFP)

One-to-many,
Many-to-one,
Many-to-many

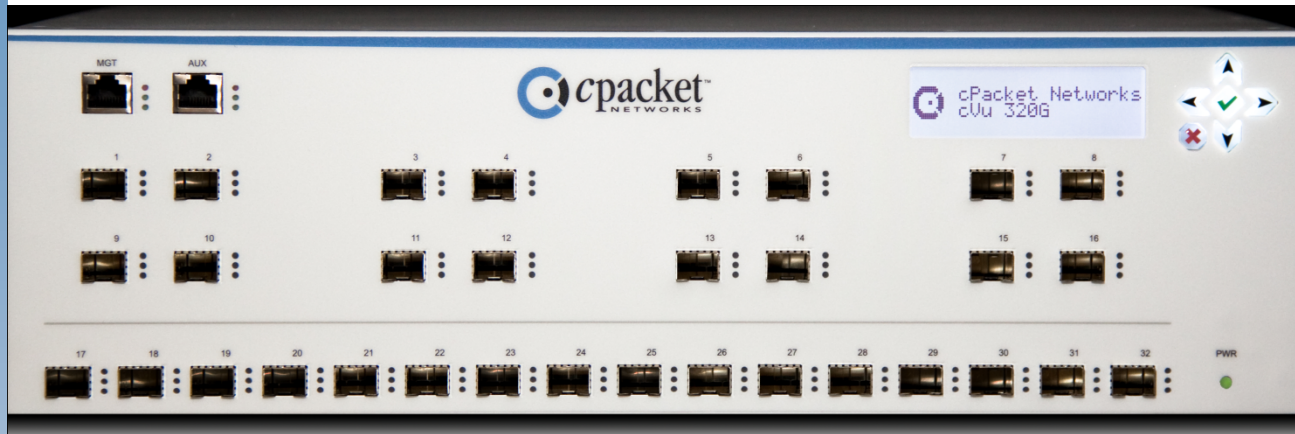
Automatic
Flow-based
Load balancing

Complete Packet
Inspection of Every
Bit in Every Packet

Real-time
performance info
and graphical
web dashboard

Accurate reporting
of microbursts
and spikes

Open performance
data export format
and Auto-Triggers



Successful data center and network operations rely on proactive monitoring and taking corrective action before problems impact the end user experience. While switch span ports, taps, and common aggregation devices attempt to provide network access to the monitoring tools and analyzers, the impact of high speed traffic on those tools is like drinking from a fire hose. The overwhelming volume of data and rate of events drowns out the early indicators and warning signs that could trigger a proactive response to problems. Insufficient network visibility leads to intermittent network behavior, application performance issues, and service disruptions to end users.

cPacket's cVu 320G supports 32 x SFP+ 10 Gigabit-per-second (10 Gbps) transceiver modules. Incoming traffic is inspected on-the-fly, subjected to L2-L7 filters, combined with the traffic from any other input ports, and steered to any output port in a flexible any-to-any topology. The device can forward the pre-filtered traffic for further analysis, while balancing the work load of downstream tools and analyzers based on predefined or automatic flow balancing policies. The cVu 320G also provides integrated spikes and microburst reporting with microsecond accuracy, accurate time stamping at the PHY before any queuing or buffering, and optional packet slicing and payload masking.

The graphical user interface allows administrators to specify filters based on complete packet inspection of every bit in every packet. This complete packet inspection of the header fields and payload content is performed at full 10 Gbps line rate per smart port, under any traffic conditions, including min size packets, jumbo packets, or random packet size mix. Header field constraints may include equality, inequality, and arbitrary range checks. Payload pattern search may include anchored and non-anchored strings with wildcards anywhere in the packet.

The cVu 320G also supports built-in monitoring of network performance and application behavior with counters and rich diagnostics, per port. It includes second-by-second bandwidth and packet rate information, frame-size distribution, rate of TCP events like SYN and RST, and custom user-defined events. By default, this second-by-second detailed performance information is presented in a graphical web dashboard and also stored in standard CSV files. The information can be imported into SQL databases, spreadsheets, and monitoring frameworks. Automatic triggers can alert users to unusual traffic conditions or behavioral anomalies.

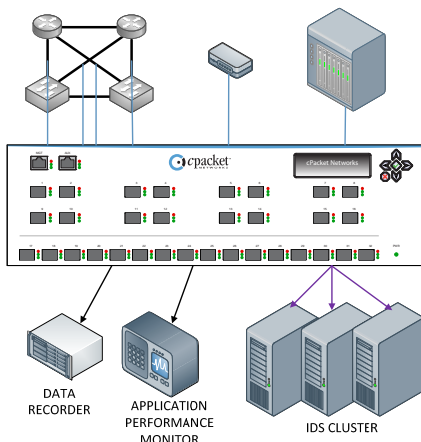
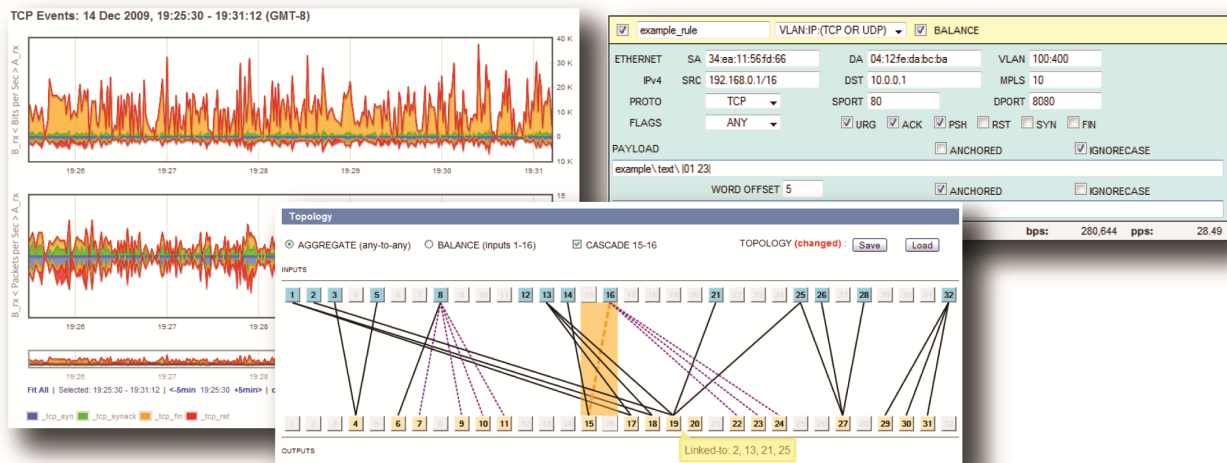
Based on cPacket's unique "Complete Packet and Flow Inspection" custom silicon chips and software, the cVu 320G delivers best in class feature set, simplicity of deployment, and ease of use.

Key Features

cPacket's cVu 320G features include:

- Complete packet inspection of packet headers and payload anywhere in the packet at full 10 Gbps line rate per port
- Traffic aggregation in one-to-many, many-to-one, and many-to-many topology configurations
- Predefined and automatic load balancing policies including automatic flow balancing with hot stand-by and fail over
- Granular network and application performance monitoring with second-by-second bits and packet counters
- Web access to snapshots of packets captured for specific user defined traffic profiles
- Built-in precision microburst analysis
- Automatic triggers and alerts of behavioral anomalies and threshold violations
- Accurate time stamping directly at the input PHY at sub microsecond accuracy
- Clock synchronization to absolute time reference to enable time stamping for accurate one way latency measurement

Topology Dashboard, Complete Packet Inspection (L2-L7) Filters, and Performance Visualization



Interfaces	32 x 10G (SFP+/SFP), 1 x management (RJ45)
Dimensions (H x W x D)	5.2" x 17.5" x 23.6" rack mounted chassis
Weight	43 lbs
Power	100-240 V AC, 50-60 Hz, 500 W DC Power Option Available Redundant hot-swappable supply
Operating Requirements	0 to 40° C, 32 to 104° F
Certifications	FCC Class A, EN 55022 Class A