



Hardware Specifications

DATA INTERFACES	<p>cVu 16100: 16 x 100G QSFP28 cVu 8100: 8 x 100G QSFP28 cVu 4100: 4 x 100G QSFP28</p> <p>Additional Configurable Options per Port:</p> <ul style="list-style-type: none"> • 1 x 40G (QSFP+) • 4 x 10G (QSFP+ with Breakout) • 4 x 25G (QSFP28 with Breakout)
MANAGEMENT INTERFACES	<p>Ethernet (RJ-45) Serial Port (RJ-45)</p>
TIMING & SYNCHRONIZATION	<p>PPS In/Out (SMA) PTP (RJ-45)</p>
DIMENSIONS (H x W x D)	<p>3.5" x 16.5" x 28.25" (8.9 cm x 42.0 cm x 72.0 cm) 2-RU rack mounted</p>
POWER AND WEIGHT	<p>100-240 V AC, 50-60 Hz DC Power Option available Redundant hot-swappable supply</p> <p>cVu 16100: 1800 W; 56 lbs. / 25.5 kg cVu 8100: 1350 W; 50 lbs. / 22.6 kg cVu 4100: 1100 W; 46 lbs. / 20.8 kg</p>
OPERATING REQUIREMENTS	<p>0 to 40° C 32 to 104° F</p>

The network packet brokering solutions from cPacket provide network visibility you can trust, delivering reliable real-time data to the right security and network monitoring tools.

The cVu 16100 product family includes the cVu 4100, cVu 8100 and the cVu 16100. The family is the industry's leading network packet broker (NPB) with millisecond accuracy at 100G wire speed. It integrates real-time performance monitoring with network packet brokering to enable organizations to cost effectively and quickly find network infrastructure issues and reliably feed security and other network tools without dropping packets.

As companies enter the digital business era, demands for high speed 100G at the core and edge of the network to support big data, multi-media and e-commerce are ever increasing. However, the ability to provide accurate real-time visibility to monitor multiple links at full line-rate is a challenge that legacy monitoring architectures struggle to handle. Visibility is also key for security, but many packet brokers supplying security tools with network data are losing critical packets because of design flaws. Traditional NPB products cannot inspect packets on multiple ports at wire speed leading to dropped packets, plus they lack the processing power necessary to allow multiple features to operate concurrently.

cPacket's cVu 16100 product family delivers nanosecond time-stamping with integrated real-time analytics combined with wire speed ingress and egress processing at each physical port in a distributed architecture. This provides unrivaled accuracy, performance and reliability for network monitoring and security applications. It inspects all packets at line rate and is guaranteed to find specific packets of interest.

A flexible port rate assignment capability allows the cVu 100 G family to be configured for topologies that include a full range of 100G, 40G, 25G, and 10G port rates to enable smooth migration and scaling as network links are upgraded. The adoption of industry standard transceivers (QSFP28 and QSFP+) means there is no vendor lock-in allowing for a cost-effective operation.

As a member of cPacket's network monitoring solution stack, it integrates with cPacket's other products (cVu, cStor and cClear) to provide the highest level of network visibility and analysis available for end-to-end performance monitoring, troubleshooting, capacity planning and security analytics.

Key Features

Benefits

Distributed Full-Matrix Switching Monitoring Architecture	The distributed monitoring architecture outperforms centralized network monitoring solutions by bringing intelligence directly from the wire, and eliminates the dropped packets, congestion, bottlenecks and limited performance that are inherent in legacy architectures
Smart Ports with Pre-ingress and Post-egress Filters	Smart ports inspect every packet before potential congestion. Pre-ingress processing ensures that relevant packets are counted and prioritized at each port before being passed to the internal switch fabric. Post-egress processing enables specific tool customization without generating additional load on the switch fabric
cBurst Millisecond Analytics and Nanosecond Time-stamping	cPacket offers proactive and timely intelligence that pinpoints imminent issues before they turn into large problems and degrade the end-user's experience. This is achieved this based on behavioral analysis, customizable alerts and key performance indicators that can identify spikes, bursts, over-subscriptions, and data loss
Measuring performance of inline devices	Using cVu nanosecond time-stamping, cPacket measures one way or two way latency of key devices such as firewalls, itself or other network packet brokers. It monitors Port to Port and VLAN to VLAN latency and reports on dropped traffic.
Improved Operational Agility	Accurate PTP/PPS time synchronization, SNMP/Syslog autonomous health alerts combined with cClear's network-wide dashboard visualization and cStor forensic intelligence, allow users to dramatically improve their mean time to resolution of issues
Real-time Intelligence at the Wire	The cPacket patented architecture provides detailed performance analytics in real-time to allow users to make informed decisions on every link across the network. This delivers the concurrent combination of traffic redirection, aggregation, smart filtering, Layers 2 to 7 protocol and packet processing and load balancing applications without the CPU overload which substantially limits the performance of other solutions
Open Monitoring Architecture with RESTful API Integration	Unlike other monitoring solutions, cPacket is designed to be integrated with other tools. In addition to performing advanced analysis, the real-time forensic data and high resolution meta data are available via RESTful API for back-office automation and integration with security and other performance solutions
100G/40G/25G/10G Wire-speed Rates	Industry standard QSFP28/QSFP+ transceivers are used for cost effective rate translation which removes vendor lock-in reducing costs. Configurable per port options of 1 x 100G, 1 x 40G, 4 x 25G and 4 x 10G rates for ease of scaling and expansion
High-Density 2-RU Form Factor	Optimally sized for large and medium size data centers and mission-critical applications for a flexible mix and match combination of up to 16 x 100G ports, 16 x 40G ports, 64 x 25G ports or 64 x 10G ports in a compact 2-RU modular chassis

ABOUT cPACKET NETWORKS

cPacket networks delivers visibility you can trust through innovative network monitoring and packet brokering solutions to solve today's biggest network challenges. Our cutting-edge technology enables network and security teams to proactively identify issues in real-time before negatively impacting end-users. Only cPacket inspects all the packets delivering the right data to the right tools at the right time and provides detailed network analytics dashboards. Whether you need greater network visibility and reliability for security tools or performance monitoring tools, our solutions are designed to overcome scalability issues and reduce troubleshooting time. The result: dramatic expansion of your visibility footprint, increased security, reduced complexity, with lower costs and a faster ROI.

Based in Silicon Valley, CA, cPacket enables organizations around the world to keep their business running. Leading enterprises, service providers, healthcare organizations and governments rely on cPacket solutions for improved agility, higher performance and greater efficiency.