

Advanced Packet Broker (cVu NG)

Network Packet Broker & Monitoring Observability Nodes



Deliver packets to performance and security tools that keep your network—and business—humming.

Today's high-speed networks present great opportunities and challenges for businesses facing constant change. High-speed networks permit organizations to succeed in rapidly changing markets. Organizations require zero downtime to move at warp speed. But those same high-speed networks also make it easier for trouble to hit businesses fast and hard in the form of security breaches and network outages. cPacket's network packet brokers are fundamental to robust network monitoring, security and observability solutions.

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Superior Performance

Processing packet traffic at line-rates up to 100Gbps with low latency, making them the perfect network observability solution for high-speed networks and demanding applications.

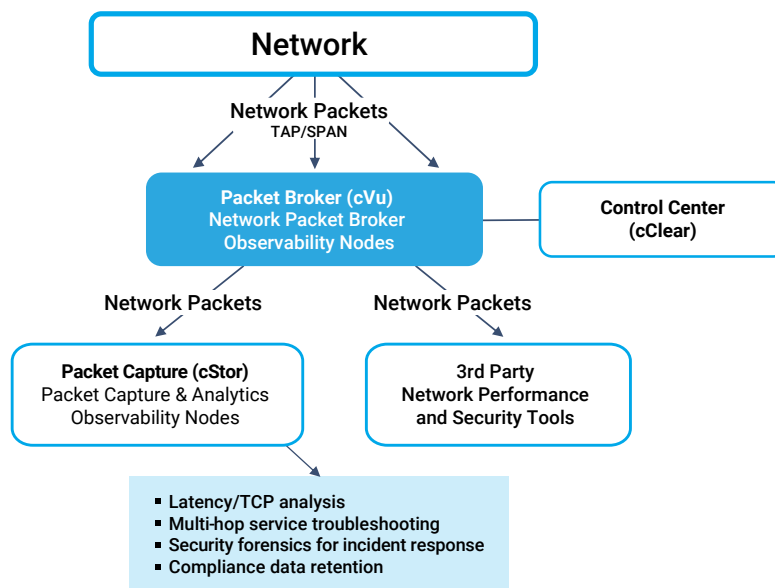
Advanced Packet Processing

Protocol- and content-based filtering and forwarding capabilities for precise control over network traffic, ensuring that packets are delivered where they are needed.

Advanced packet processing including deduplication, header stripping, packet slicing, and TCP/UDP truncation offloads processing from network monitoring and security tools, providing better efficiency and performance.

Deep Observability

Real-time visibility into network traffic to quickly identify and respond to network performance issues and security threats with features including nanosecond resolution timestamping, microburst analysis, and market data feed gap detection.



Advanced Packet Broker (cVu NG) Technical Specifications

Key Features	cVu 160NGE	cVu 240NGE	cVu 400NGE	cVu 400NGE-CX	cVu 560NGE	cVu 2440NG	cVu 3240NG	cVu 4100NG	cVu 8100NG	cVu 16100NG
Traffic Aggregation/Replication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Packet Slicing/Truncation	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Advanced Load Balancing	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VXLAN/MPLS/VNTag Stripping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VLAN Tag with Inner VLAN Filtering	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TrustSec Stripping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
Smart Filtering	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
High-Resolution Counters (HRC KPI)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Microburst Analytics (cBurst) (1 mS Resolution)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Packet Deduplication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Packet Size Byte Counter Insertion	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MACSec Decryption	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No
Packet Trailer Timestamping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Time Sync Management (PTP/NTP)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Role-Based Administration	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Software Upgrade/Restore	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
GUI, Serial Console and CLI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMPv3 and MIB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Unlocked Optical Transceivers	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Optical Transceiver Diagnostics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS/LDAP Authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
cMDF	No	No	No	No	No	No	No	Yes	Yes	Yes
Unified Management (requires cClear)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Certified FIPS 140 Level 2 Cryptography	No	No	No	No	No	No	No	Yes	Yes	Yes
TAA Compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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Interface Connectivity										
1 GbE (SFP)	Smart: 16	Smart: 24	Smart: 24	Smart: 24	Smart: 24	-	-	-	-	-
10 GbE Ports (SFP+)	Smart: 16 Aggregation: 16	Smart: 24 Aggregation: 16	Smart: 24 Aggregation: 16	Smart: 24 Aggregation: 16	Smart: 24 Aggregation: 16	96*	128*	16*	32*	64*
40 GbE Ports (QSFP+)	-	-	Smart: 4	Smart: 4	Smart: 4 Standard: 4	24	32	4	8	16
100 GbE Ports (QSFP28)	-	-	-	Aggregation: 2	-	-	-	4	8	16
Management/Console	Ethernet/Serial (RJ45)									
Timing/Synchronization	PPS (SMA) PTP/NTP									

* Using QSFP+ in 4 x 10Gb breakout mode.

Dimensions and Weight

Height/Rack Unit	1.7" (4.3 cm) 1U	1.7" (4.3 cm) 1U	1.7" (4.3 cm) 1U	1.7" (4.3 cm) 1U	1.7" (4.3 cm) 1U	3.5" (8.9 cm) 2U	3.5" (8.9 cm) 2U	3.5" (8.9 cm) 2U	3.5" (8.9 cm) 2U	3.5" (8.9 cm) 2U
Width	16.6" (43 cm)	16.6" (43 cm)	16.6" (43 cm)	16.6" (43 cm)	16.6" (43 cm)	16.6" (43 cm)	16.6" (43 cm)	16.6" (43 cm)	16.6" (43 cm)	16.6" (43 cm)
Depth	29.5" (75 cm)	29.5" (75 cm)	29.5" (75 cm)	29.5" (75 cm)	29.5" (75 cm)	29.5" (75 cm)	29.5" (75 cm)	29.5" (75 cm)	29.5" (75 cm)	29.5" (75 cm)
Weight	33 lb (15.0 kg)	33 lb (15.0 kg)	33 lb (15.0 kg)	33 lb (15.0 kg)	33 lb (15.0 kg)	55 lb (24.9 kg)	57 lb (25.9 kg)	48 lb (21.8 kg)	51 lb (23.1 kg)	58 lb (26.3 kg)

Operating Conditions

Operating Temperature	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C	32° F – 104° F 0° C – 40° C
Operating Humidity	10% – 90%	10% – 90%	10% – 90%	10% – 90%	10% – 90%	10% – 90%	10% – 90%	10% – 90%	10% – 90%	10% – 90%
Certifications	FCC Class A EN 55032 Class A EN 62368-1	FCC Class A EN 55032 Class A EN 62368-1	FCC Class A EN 55032 Class A EN 62368-1	FCC Class A EN 55032 Class A EN 62368-1	FCC Class A EN 55032 Class A EN 62368-1	FCC Class A EN 55022 Class A	FCC Class A EN 55022 Class A	FCC Class A CE Certification	FCC Class A CE Certification	FCC Class A CE Certification

Power and Cooling

Airflow	Front-to-Back	Front-to-Back	Front-to-Back	Front-to-Back	Front-to-Back	Front-to-Back	Front-to-Back	Front-to-Back	Front-to-Back	Front-to-Back
Power Redundancy	1+1 AC 100-240 VAC 50-60 Hz	1+1 AC 100-240 VAC 50-60 Hz	1+1 AC 100-240 VAC 50-60 Hz	1+1 AC 100-240 VAC 50-60 Hz	1+1 AC 100-240 VAC 50-60 Hz	2+2 AC 100-240 VAC 50-60 Hz	2+2 AC 100-240 VAC 50-60 Hz	1+1 AC 100-240 VAC 50-60 Hz	1+1 AC 100-240 VAC 50-60 Hz	2+2 AC 100-240 VAC 50-60 Hz
Max. Power Consumption	650 W	650 W	650 W	650 W	650 W	1700 W	1700 W	1100 W	1350 W	1800 W
Heat Dissipation	2216 BTU/ hour	2216 BTU/ hour	2216 BTU/ hour	2216 BTU/ hour	2216 BTU/ hour	5797 BTU/ hour	5797 BTU/ hour	3751 BTU/ hour	4603 BTU/ hour	6138 BTU/ hour

Find out more

Learn more about **cPacket's Packet Broker Solution**. Visit cpacket.com/packet-broker