



PacketLogic™ 9000 Platform

High performance network intelligence and policy enforcement platform

A cost effective and low-energy consumption appliance to reduce your OPEX and carbon footprint, the PL9420 platform can be configured to support a range of analytics and policy enforcement functions.

KEY BENEFITS

- Granular awareness for applications with superior accuracy using DRDL™
- Unsurpassed real-time visibility with LiveView™
- Flexible deployment options including support for asymmetric traffic through FlowSync™ and QueueSync™
- Up to 120 Gbps of network intelligence for all network access types

The PacketLogic 9000 platform identifies and gathers network intelligence to provide performance insights. This lets network operators take the actions necessary to improve quality of experience (QoE) for users.

The PL9420 platform is a 2RU appliance offering up to 120 Gbps of network traffic throughput, accessible through eight modular I/O slots configurable from 16 x 10GE or 32 x 1GE channels. The PacketLogic 9420 platform can be configured to support a range of analytics and policy enforcement functions.

Designed for the most demanding network deployments, the PacketLogic 9420 platform offers the performance and capacity to handle up to three million subscribers, and supports a variety of customized services in a policy enforcement configuration. This platform enables massive growth without sacrificing service creation flexibility, which removes limitations on subscriber provisioning, policy interactions, policy enforcement, charging, application identification, analytics, and congestion management – limitations that have constrained network services and profitability.

KEY CAPABILITIES

Sandvine's PacketLogic software enables support for a full suite of network intelligence and policy enforcement capabilities, including:

- Content-aware services
- Congestion management
- Traffic prioritization
- Application-layer shaping
- Statistics collection
- Volume-based shaping
- Application delivery networking via advanced traffic steering
- HTTP header enrichment

POWERFUL ENFORCEMENT FEATURES

The PacketLogic 9420 platform is a turnkey hardware solution optimized to support Sandvine's PacketLogic Real-Time Enforcement software, delivering unparalleled network intelligence with policy enforcement capabilities to enhance the QoE.

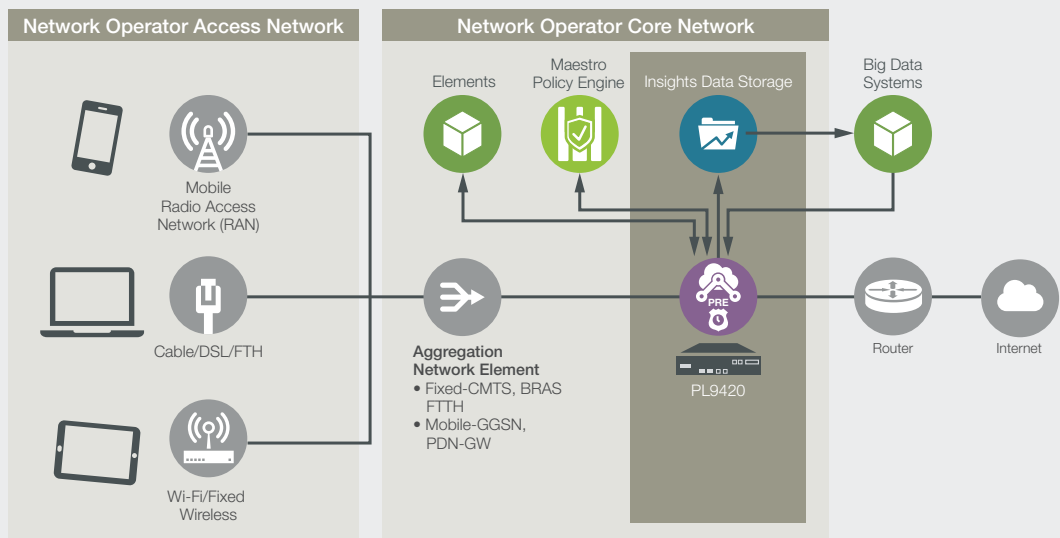
PACKETLOGIC™ 9420 PLATFORM



- **REAL-TIME DYNAMIC LIVEVIEW QUERY ENGINE AND PACKETLOGIC CLIENT** enables sophisticated real-time forensics to manage QoE, network congestion, and network security issues.
- **DRDL™ (DATASTREAM RECOGNITION DEFINITION LANGUAGE)** processing to identify properties of individual session flows in real-time, enabling operators to create and define services on-the-fly.
- **POLICY-BASED TRAFFIC MANAGEMENT CAPABILITIES**, including asymmetric traffic control, traffic shaping and filtering, traffic flow classification and prioritization, traffic monitoring and packet re-write.
- **ADVANCED PACKET QUEUING**, including parallel queuing to enable more flexible traffic management policies, which ensure predictable delay and jitter enabling operators to meet their customers' QoE expectations.
- **STATISTICS GATHERING** for individual flows to enable real-time and historical reporting, including real-time QoE updates.
- **CONTENT INTELLIGENCE** enables network operators, cloud providers, and high-speed enterprises to combine the policy management capabilities of PacketLogic with industry-leading URL content categorization functionality.
- **HTTP HEADER ENRICHMENT** leveraging PacketLogic's stateful awareness and subscriber awareness.
- **ADVANCED TRAFFIC STEERING** that combines PacketLogic Real-Time Enforcement capabilities with application delivery networking functionality to provide a single application delivery controller solution with unmatched performance and scalability, enabling service chaining with subscriber, service plan, charging, and Layer 7 awareness.
- **EVENT-BASED TRIGGERS** that automatically change policy in response to specified real-time network traffic conditions by dynamically enabling DoS/DDoS connection limits, traffic shaping or filtering.
- **BGP INTEGRATION** enables peering and CDN visibility, including QoE metrics support for Origin-AS and transit analysis.

Figure 1

Typical PacketLogic Deployment



PL9420 SPECIFICATIONS



Connections	30,000,000 ¹
Connections/sec	500,000 ¹
Throughput	120 Gbps ¹
Subscribers	3,000,000 ¹
Management Interfaces	2 x 1000Base-T
Max # of Channels	32 x GE or 16 x 10 GE
Physical Interfaces	1000Base-T, 1000Base-SX, 1000Base-LX, 10GBase-SR, 10GBase-LR, 10GBase-ER
Console Port	RJ-45 Console
Redundancy	Bypass, FlowSync
Bandwidth Licensing	10 and 100 Mbps increments
Network Intelligence	PacketLogic Intelligence Center
Subscriber Management	PacketLogic Subscriber Manager
Hardware	2 Rack Unit (RU), 19" Rack-Mounted with AC/DC Power Supply
Components	Appliance, Fixed Form Factor
Size	3.5" (h) x 16.9" (w) x 22" (d) 8.8 cm (h) x 42.9 cm (w) x 55.8 cm (d)
Weight	40 lbs/18 kg
Power	Wattage: 820W; Voltage: 100-240 VAC Current: 8.0- 3.3A or -36 to -72VDC, Current: 16A@-48VDC; Frequency: 50-60 Hz
Environmentals	Operating Temp: 0°C to 40°C; Storage Temp: -20°C to 75°C; Operating Humidity: 5% to 85% (non-condensing)

¹ Depending on configuration/features used

ABOUT SANDVINE

Sandvine helps organizations run world-class networks with Active Network Intelligence, leveraging machine learning analytics and closed-loop automation to identify and adapt to network behavior in real-time. With Sandvine, organizations have the power of a highly automated platform from a single vendor that delivers a deep understanding of their network data to drive faster, better decisions. For more information, visit sandvine.com or follow Sandvine on Twitter at [@Sandvine](https://twitter.com/Sandvine).



USA
2055 Junction Avenue
Suite Number 105
San Jose,
CA, 95131
USA

EUROPE
Svärdfiskgatan 4
432 40 Varberg,
Halland
Sweden
T. +46 340.48 38 00

CANADA
408 Albert Street,
Waterloo,
Ontario N2L 3V3,
Canada
T. +1 519.880.2600

ASIA
RMZ Ecoworld,
Building-1, Ground Floor,
East Wing Devarabeesanahalli,
Bellandur, Outer Ring Road,
Bangalore 560103, India
T. +91 80677.43333

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