



# PacketLogic™ 8000 Platforms

## Scalable network intelligence and policy enforcement platform

Designed for the most demanding  
network deployments

### KEY SYSTEM 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 5 Gbps of subscriber experience intelligence for all network access and core technologies

The PacketLogic 8000 (PL8000) platforms set the industry benchmark for appliance-level systems that enable network operators to gain insight into how their networks are performing and take action to improve the subscriber experience.

The PL8840 and PL8960 platforms are 2RU appliances offering a range of throughput speeds and capacities—from 32 Gbps up to 70 Gbps of network traffic throughput accessible through either 4 or 6 modular I/O slots configurable from 8 x 10GE or 16 x 1GE channels (PL8840) or 12 x 10GE or 24 x 1GE channels (PL8960).

PL8000 platforms can be configured to support a range of analytics and policy enforcement functions. They are ideally suited for network operator deployments supporting high-density subscriber scenarios in a cost-effective, low-energy consumption appliance footprint. All platforms support multiple high-availability options, including configuration synchronization and clustering, for carrier-class availability.

Designed for the most demanding network deployments, PL8000 platforms offer the performance and capacity to handle from 1 to 3 million subscribers using many different fully personalized services in a policy enforcement configuration. This enables massive growth without sacrificing service creation flexibility—removing limitations for subscriber provisioning, policy interactions, policy enforcement, charging, application identification, analytics, and congestion management 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
- Attack mitigation
- Statistics collection
- Volume-based shaping
- Application delivery networking via advanced traffic steering
- HTTP header enrichment

# PACKETLOGIC™ 8000 PLATFORMS



PL8840 PLATFORM



PL8960 PLATFORM

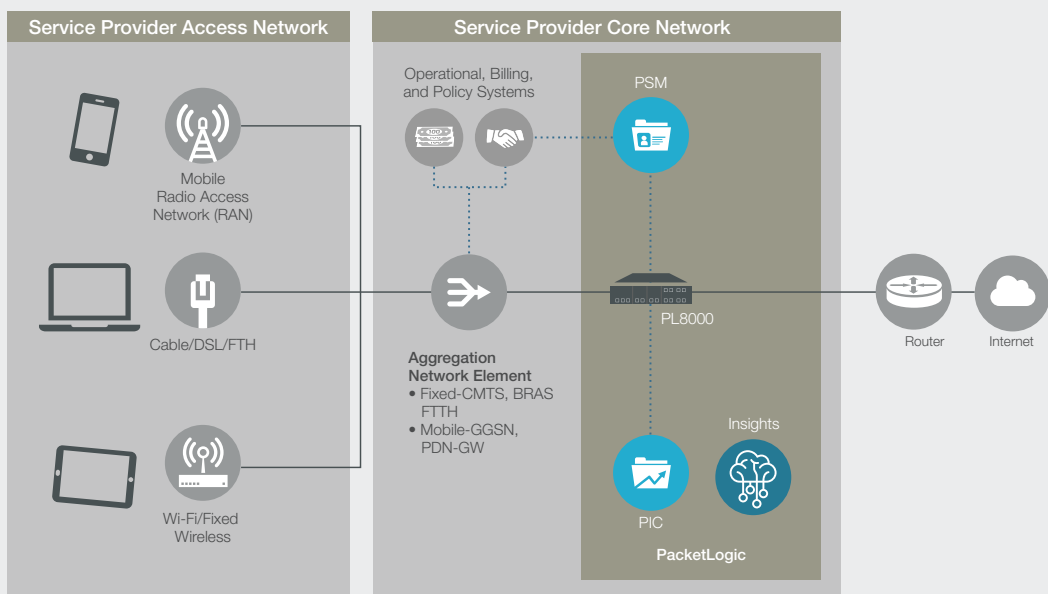
## POWERFUL ENFORCEMENT CAPABILITIES

The PL8000 platforms are turnkey hardware solutions optimized to support Sandvine's PacketLogic Real-Time Enforcement software, delivering unparalleled subscriber experience intelligence with policy enforcement capabilities to enhance the subscriber experience.

- **REAL-TIME DYNAMIC LIVEVIEW QUERY ENGINE AND PACKETLOGIC CLIENT** enables sophisticated real-time forensics to manage Quality of Experience, Network Congestion, and Network Security issues.
- **DRDL™ (DATASTREAM RECOGNITION DEFINITION LANGUAGE)** processing identifies properties of individual session flows in real-time, enabling operators to create and define services on-the-fly.
- **POLICY-BASED TRAFFIC MANAGEMENT CAPABILITIES** that include 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



# PL8000 SERIES SPECIFICATIONS



	PL8840	PL8960
<b>Connections</b>	15,000,000 <sup>1</sup>	20,000,000 <sup>1</sup>
<b>Connections/sec</b>	220,000 <sup>1</sup>	400,000 <sup>1</sup>
<b>Throughput</b>	32 Gbps <sup>1</sup>	70 Gbps <sup>1</sup>
<b>Subscribers</b>	2,000,000 <sup>1</sup>	3,000,000 <sup>1</sup>
<b>Management Interfaces</b>	2 x 1000Base-T	2 x 1000Base-T
<b># of Channels</b>	8 x 10 GE, 16 x GE	24 x GE or 12 x 10 GE
<b>Physical Interfaces</b>	1000Base-T, 1000Base-SX 1000Base-LX, 10Gbase-SR 10Gbase-LR	1000Base-T, 1000Base-SX 1000Base-LX, 10Gbase-SR 10Gbase-LR
<b>Console Port</b>	RJ-45 Console	RJ-45
<b>Redundancy</b>	Bypass, FlowSync	Bypass, FlowSync
<b>Bandwidth Licensing</b>	1Gbps and 10Gbps increments	1Gbps and 10Gbps increments
<b>Network Intelligence</b>	PacketLogic Intelligence Center	PacketLogic Intelligence Center
<b>Subscriber Management</b>	PacketLogic Subscriber Manager	PacketLogic Subscriber Manager
<b>Hardware</b>	2 rack unit (RU), 19" rack-mounted	2 rack unit (RU), 19" rack-mounted
<b>Components</b>	Appliance, fixed form factor with 4 I/O module slots	Appliance, fixed form factor with 6 I/O module slots
<b>Size</b>	3.5" (h) x 16.9" (w) x 22" (d) 8.9 cm (h) x 43 cm (w) x 55.9cm (d)	3.5" (h) x 16.9" (w) x 22" (d) 8.8 cm (h) x43 cm (w) x 55.9 cm (d)
<b>Weight</b>	40lbs/18kg	40lbs/18kg
<b>Power</b>	Wattage: 720W; Voltage: 100-240 VAC or 36-72 VDC, Frequency: 50-60Hz; Current: 6-2.5A	Wattage: 720W; Voltage: 100-240 VAC or 36-72 VDC, Frequency: 50-60Hz; Current: 7.2-3A
<b>Environmentals</b>	Temperature: Operating: 0°C to 40°C; Storage: -20°C to 80°C; Operating humidity: 5% to 85% (non-condensing)	Temperature: Operating: 0°C to 40°C; Storage: -20°C to 80°C; Operating humidity: 5% to 85% (non-condensing)

<sup>1</sup> 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](http://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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