SANDVINE

PacketLogic™ 8000 Platforms

Scalable network intelligence and policy enforcement platform

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.

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

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

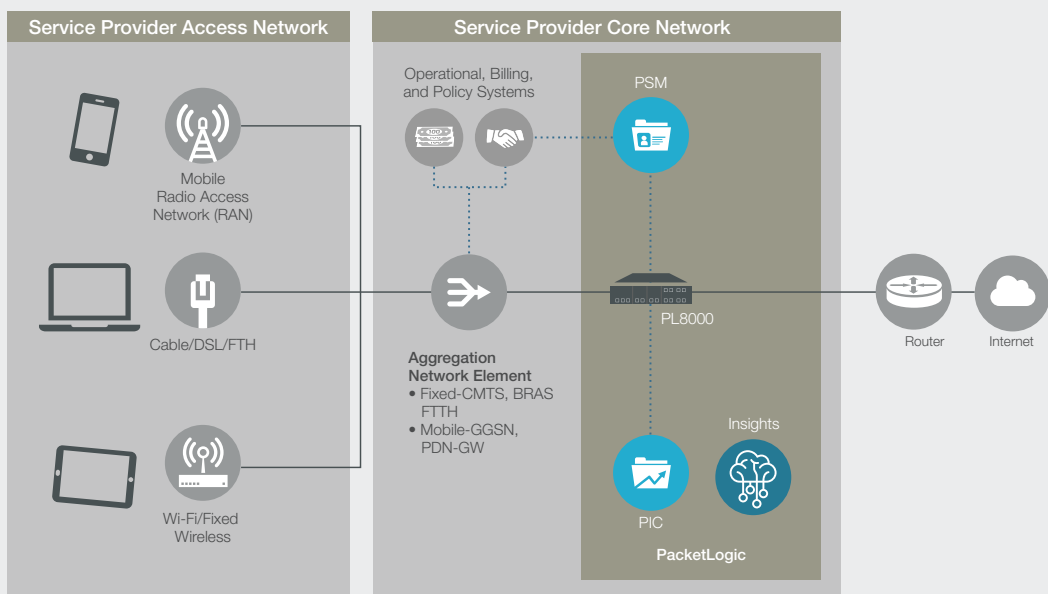**PL8840 PLATFORM**

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
Connections	15,000,000[1]	20,000,000[1]
Connections/sec	220,000[1]	400,000[1]
Throughput	32 Gbps[1]	70 Gbps[1]
Subscribers	2,000,000[1]	3,000,000[1]
Management Interfaces	2 x 1000Base-T	2 x 1000Base-T
# of Channels	8 x 10 GE, 16 x GE	24 x GE or 12 x 10 GE
Physical Interfaces	1000Base-T, 1000Base-SX 1000Base-LX, 10Gbase-SR 10Gbase-LR	1000Base-T, 1000Base-SX 1000Base-LX, 10Gbase-SR 10Gbase-LR
Console Port	RJ-45 Console	RJ-45
Redundancy	Bypass, FlowSync	Bypass, FlowSync
Bandwidth Licensing	1Gbps and 10Gbps increments	1Gbps and 10Gbps increments
Network Intelligence	PacketLogic Intelligence Center	PacketLogic Intelligence Center
Subscriber Management	PacketLogic Subscriber Manager	PacketLogic Subscriber Manager
Hardware	2 rack unit (RU), 19" rack-mounted	2 rack unit (RU), 19" rack-mounted
Components	Appliance, fixed form factor with 4 I/O module slots	Appliance, fixed form factor with 6 I/O module slots
Size	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)
Weight	40lbs/18kg	40lbs/18kg
Power	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
Environmentals	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)

[1] Depending on configuration/features used

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