

Sandvine Policy Traffic Switch 14000

Enabling Better Broadband with Network Policy Control

Sandvine is dedicated to building solutions that allow today's DSL, FTTx, cable, fixed wireless and mobile data service providers to increase network profitability while improving the quality of experience (QoE) for the consumer.

Network policy control is the mechanism by which network elements implement the coordinated service policies that comprise today's innovative network management solutions. A network policy control architecture helps service providers of all sizes to maximize the profitability of their networks while protecting the subscriber experience.

Your Platform for Increased Profitability

The Sandvine Policy Traffic Switch portfolio helps service providers to address key business challenges. The PTS 14000 is the mid-size offering in the PTS portfolio and is available in 4 Gbps or 10 Gbps formats that are perfectly suited for subscriber edge and aggregation layer deployments in larger networks. With 10 GE links and a novel approach to handling asymmetric routing, the PTS 14000 provides insight into and management of traffic at up to 80 Gbps. Like all models in the Policy Traffic Switch portfolio, the PTS 14000 provides stateful application and subscriber-awareness, the flexibility to deploy innovative solutions to emerging issues, the best traffic control and visibility in the industry, and the security that comes with knowing that the subscriber experience improves when Sandvine is deployed in a network.



Whether a network operator is operating in an emerging market where sustainable growth is the primary issue, or fighting in a competitive landscape where rapid innovation is the key to success, the PTS is the platform that can take the network to the next level.

Traffic Optimization

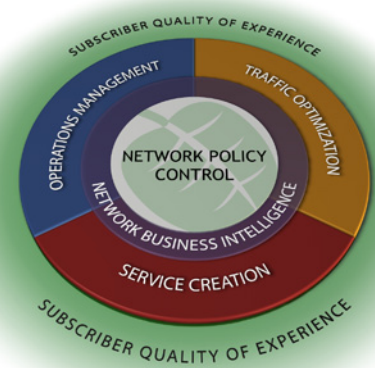
- Improve subscriber quality of experience while complying with equity and fairness objectives
- Implement fair congestion management solutions to reduce the capacity needed for growth and peak hours

Service Creation

- Enhance the Internet experience while unlocking new revenue opportunities with personalized services

Operations Management

- Minimize malicious network traffic, including outbound e-mail spam
- Simplify regulatory filtering compliance
- Identify quality issues before subscribers do



Key Benefits

- Scalability up to 80 Gbps and 5 million subscribers
- Provides consistent access-independent network policy control
- Unsurpassed visibility into network usage, including per-subscriber application awareness
- Integration with Solutions Partner Ecosystem to enable new value-added services
- Solutions for multiple business needs

Technical Details and Specifications

The Policy Traffic Switch platform is a highly scalable network element that enables Sandvine's full suite of network policy control solutions. With stateful traffic identification, standards-based interfaces and the broadest range of policy management options, the PTS lets service providers protect or enhance subscriber quality of experience while simultaneously achieving business and operational objectives.

PTS Portfolio Performance

The following table provides performance metrics under typical network conditions. Actual performance may vary based upon the deployment characteristics.

	Cluster	24500		24300		24100	14500	14210	8210
Aggregate Throughput	360 Gbps	60 Gbps	40 Gbps	40 Gbps	20 Gbps	20 Gbps	10 Gbps	4 Gbps	1 Gbps
New flows/sec	9 M	1.5 M	1 M	1 M	500 K	500 K	500 K	200 K	50 K
Concurrent Flows	270 M	50 M	25 M	25 M	15 M	15 M	15 M	6 M	750 K
Subscribers	5 M	5 M	2 M	2 M	1 M	1 M	1 M	400 K	50 K

PTS 14000 Port and Interface Options

The PTS 14000 is available with 10 GE or 1 GE data ports.

	1452x	1451x	1421x
1 GE	---	8 or 12*	8 or 12*
10 GE	2	---	---

*Requires Quad Expander card

The PTS 14000 is available with 10 GE or 1 GE cluster ports. These ports can also be used to integrate with third-party equipment, including solutions ecosystems partners.

	1452x	1451x	1421x
1 GE	4*	8*	8*
10 GE	6	2	2

*Requires Quad Expander card

A variety of interface options are available, listed below.

1 GE	Copper	10/100/1000T
	Optical	SX (MM)
LX (SM)		
ZX (SM)		
10 GE	Optical	SR (MM)
		LR (SM)
		ER (SM)

Redundancy and High Availability

- N:N+1 clustering for simple, cost-effective solution redundancy
- Redundant, field-replaceable hard-drives, power supplies and fans
- Optional interface bypass module for power failures and major system events

Deployment Options

The PTS 14000 can be installed in the network in a number of configurations; including inline, offline, hairpin and clustered deployments. A PTS cluster retains full traffic identification and policy enforcement capabilities even in the presence of asymmetric routing.

Software Licensing

The Policy Traffic Switch requires the Base Platform Software license, which includes the following applications:

- Network Demographics
- Subscriber Policy Broker
- Service Definition Manager

A Sandvine Storage, Reporting and Policy (SRP) platform is required to enable the applications above. Additional software licenses are available to address specific business objectives.

Certifications and Approvals

- NEBS Level 3 certified
- Product Safety and EMC approvals available on request

PTS 14000 Physical Specifications

- Dimensions: 432mm x 177.8mm x 584.2mm / 17" x 7" x 23" (Width x Height x Depth)
- Mounting: Standard 19" rack - 4 RU
- Weight: 34kg / 77 lbs
- Power Consumption: max 1500 W
- Power Supply: AC 100-240 V or DC 42-60 V input
- Temperature: 0°C to +40°C / +32°F to +104°F
- Humidity: 5% to 85% non-condensing

