

NEOXPacketLion NX-PBPL-1S2

EFFICIENT MONITORING OF SEVERAL 100G LINES WITH YOUR 1G-100G ANALYSIS AND SECURITY TOOLS



Network Packet Brokers, also called Data (Network) Monitoring Switches, help you to intelligently manage your passively tapped network data and - through innovative technology - provide the analysis tools with the data packets reliably and in optimised form.

In the world of the Internet of Things (IoT), the Internet of Medical Things (IoMT), and Operational Technology (OT), managing and securing networks of numerous low-rate devices presents unique challenges for which the NX-PBPL-1S2 can provide an essential addition to existing monitoring tools.

PacketLion NX-PBPL-1S2 built on the advanced Trident 3 switch offers high-density form factor and robust functionality. NX-PBPL-1S2 supports a wide range of connection rates, from 10/100/1000BASE-T Copper (via downward compatible SFP transceiver) to 100G Fiber.

Additionally, it features advanced capabilities such as GRE/VXLAN Termination, Timestamping and Slicing for optimized data processing.

By filtering out the data with hardware-based filtering mechanisms before it is routed out, this allows you to evaluate multiple 100G lines with existing 10G analysis tools, for example, while reducing the amount of data for hassle-free and secure analysis.

Data that is not of interest is either discarded or sent to other tools for further analysis.

KEY FEATURES

48x 1G/10G SFP+ Ports & 6x 40G/100G QSFP28 Ports
Aggregation, L2-L4 including 5-tuple Filtering
TRIDENT 3 platform with 1.08Tbps capacity and 32MB Buffer Size
Full range of rates supported in a 1U platform: 10/100/1000Mbps, 10G, 40G and 100G
Non-blocking backplane architecture with N+1 redundancy
Line rate performance without packet loss
Stacking of multiple NEXPacketLion Network Packet Brokers
Service/Tool chain for Inline tools use cases
Support for L2GRE and VxLAN tunnelling protocol
Load distribution based on 5-tuple criteria
Port Splitting (Simplex Mode), Port Labeling
Nanosecond Timestamping (per port / per filter rule)
Support for Jumbo Frames
MAC Replace
MPLS Stripping (up to 7 labels)
Packet Slicing
Management Ports: 1x RJ-45 serial console, 1x RJ45 100/1000Base-T
Unified management including CLI, SSH, SNMP V2/V3, WEB UI, Net CONF and REST API
Radius and TACACS+
4+1 redundant, hot-swappable fans

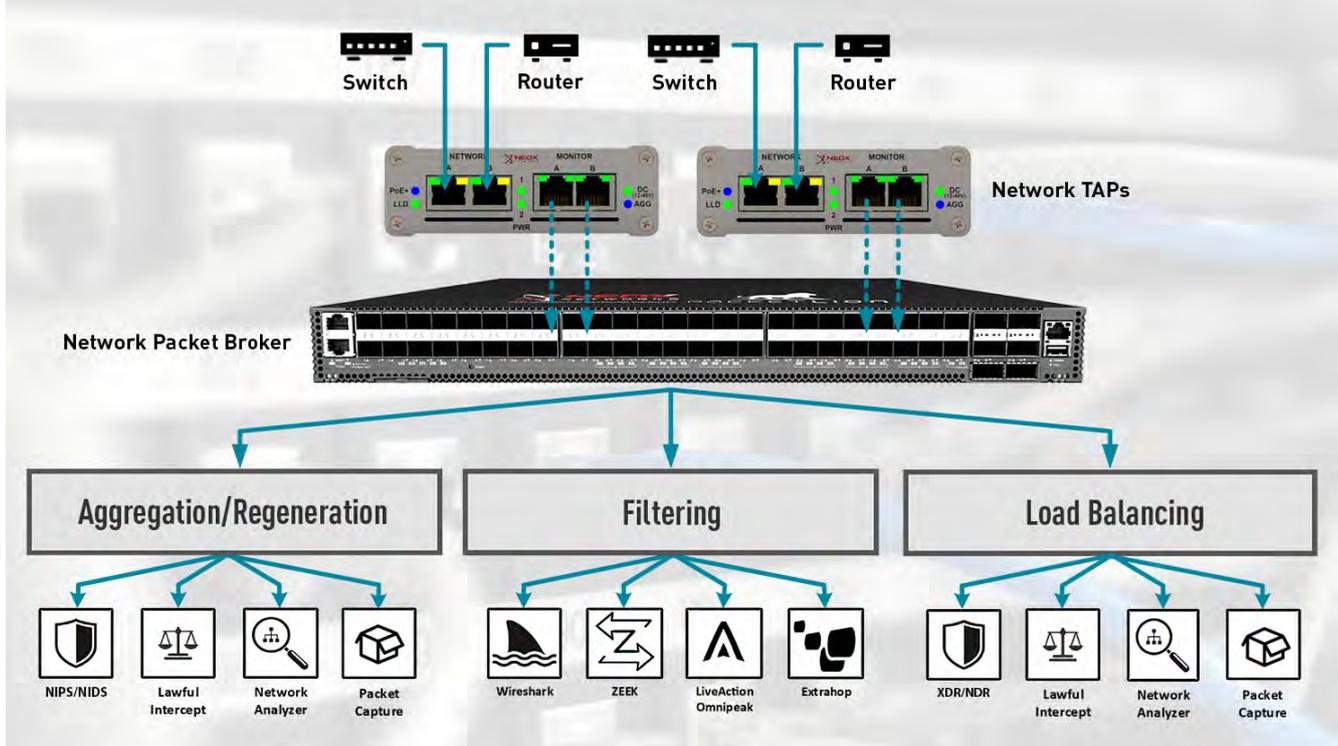
ADDITIONAL FEATURES

- Flexible port assignment (1:1, N:N, N:1, 1:N)
- Aggregation of 1G-, 10G-, 25G-, 40G-, 50G- and 100G network ports
- Support for filter rules (MAC, VLAN, IPv4/IPv6, TCP/UDP, DSCP, TCP Flags, MPLS, Ingress, Egress)
- Filtering within a tunnel (GTP, L2TP, MPLS, GRE, VxLAN, etc.)
- Digital Diagnostics Monitoring (DDM)
- Support for User-Defined Filter rules (UDF)
- Logging through Syslog and SNMP Traps
- Support for NETCONF and RESTCONF
- Supports hot/cold aisles with front-to-back and back-to-front airflow SKUs.
- Enhanced productivity with Drag & Drop Filter Editor
- Inclusive 1 year Silver Support

USE CASES

- Aggregation of TAP/SPAN network traffic to a centralized location where tools are deployed
- Optimize tools performance by filtering network traffic
- Regenerate network traffic to multiple tools
- Small medium Enterprise with dozens low-rate devices.
- Replace MAC address to enable device identification, authentication, and tracking
- Compliance for high frequency trading
- Monitor and optimize 5G networks with nanosecond timestamping

EXAMPLE SCENARIO

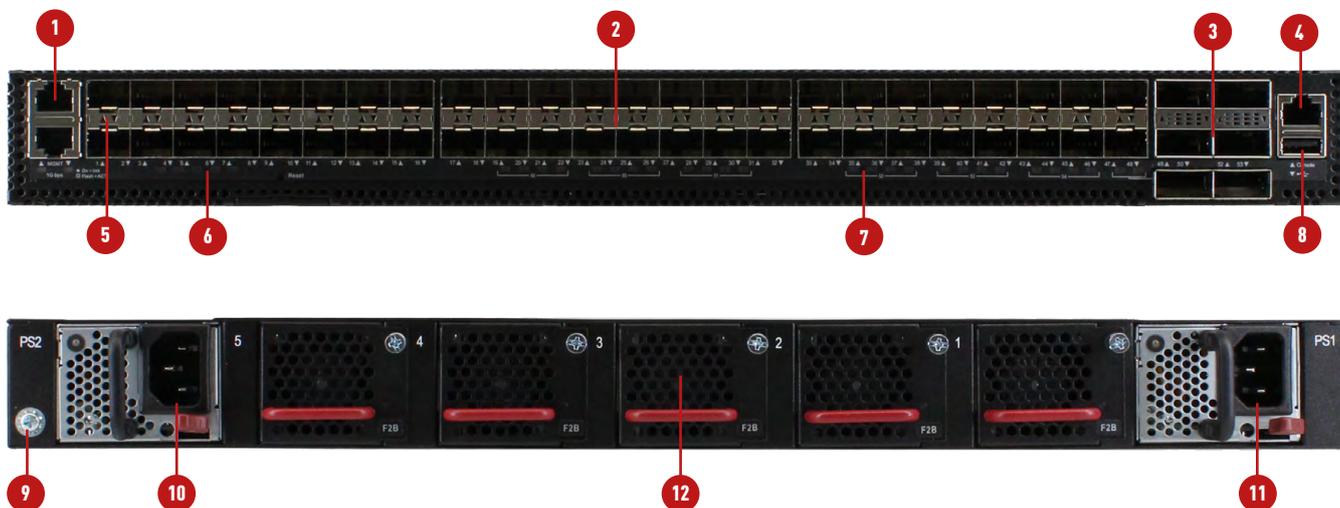


TECH SPECS

CHIPSET	DIMENSIONS (WxHxD) / RU	WEIGHT
Broadcom Trident 3 (BCM56771)	43.8 cm x 4.3 cm x 47.3 cm / 17.3" x 1.7" x 18.6" / 1RU	8.8 kg
POWER SUPPLY (PSU)		
2 redundant, load-sharing, hot-swappable AC or -48 VDC, Input Voltage: 100-240 VAC at 50-60 Hz. -48 to -72 VDC, max power: 356 W		
OPERATING TEMPERATURE	STORAGE TEMPERATURE	OPERATING HUMIDITY
0°C to 40°C (32°F to 104°F)	-40°C to 70°C (-40°F to 158°F)	5% to 95% non-condensing

CERTIFICATIONS

CE Mark, EN55032, CISPR 32, AS/NZS CISPR 32, EN55024, CISPR 24, CISPR 35, EN 61000-3-3, EN 61000-3-2, FCC 47 CFR Part 15b Class A, VCCI Class A, BSMI Class A, CNS 13438, CCC, EN60950, UL60950, EN62368, UL62368, CCC, BSMI, CNS 14336-1



DESCRIPTION

1	2x RJ45 100/1000Base-T Management Ports	5	Port Indicators	9	Grounding Point
2	48 x 10G SFP+ Ports	6	System LEDs: PSU1+2, Diagnostic, Fans, Locator	10	Hot swappable PSU 1
3	6 x 100G QSFP28 Ports	7	40/100 Breakout Mode LEDs	11	Hot swappable PSU 2
4	1x RJ45 Serial Console Management Port	8	USB Storage Port	12	Hot-swappable 4+1 Redundant Fans



SKU	1G/10G	40G/100G	1G/10G/25G/50G
NX-PBPL-1S2	48x SFP+	6x QSFP28	12x (Fan Out/Break Out via QSFP28)



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