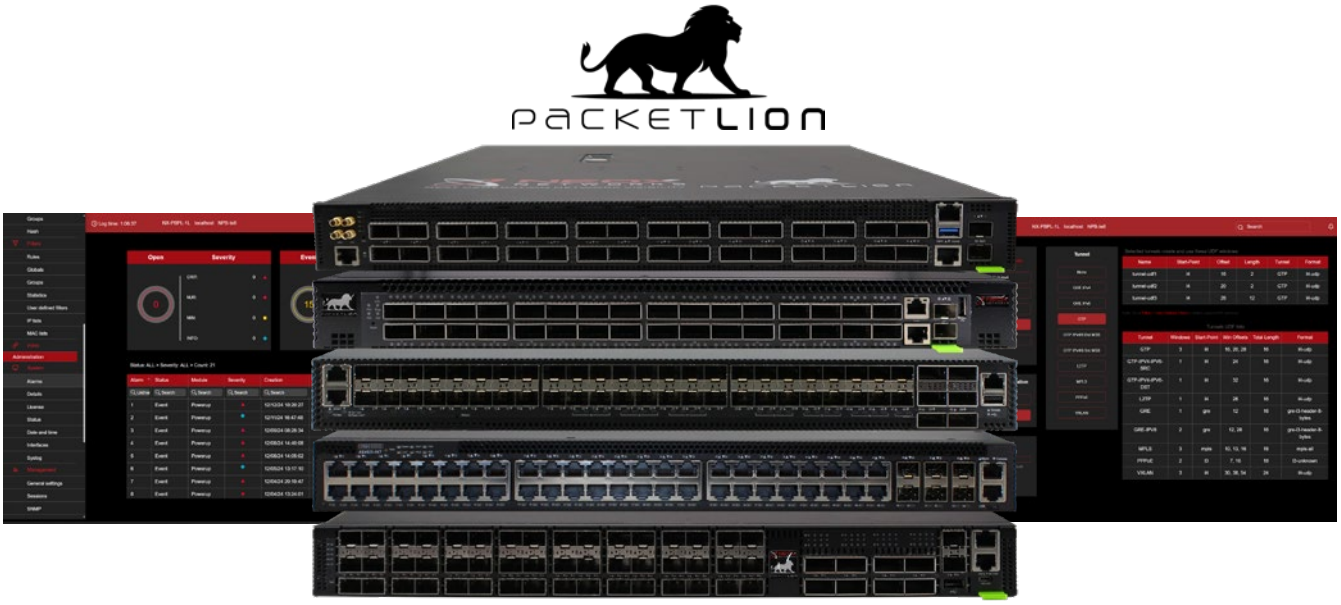
NEOX NETWORKS
UNIFIED NETWORK VISIBILITY

NEOXPacketLion Network Packet Broker Family

AGGREGATING & OPTIMIZING PACKETS FOR YOUR NETWORK MONITORING
FULL NETWORK VISIBILITY FROM 1G TO 400G THANKS TO ASIC PERFORMANCE



Network packet brokers, also known as data (network) monitoring switches, help you to intelligently manage your passively tapped network data and - thanks to innovative technology - provide the analysis tools with the data packets reliably and in optimised form.

Media type and speed of your network are irrelevant, as these devices are equipped with RJ45/SFP+/SFP28/QSFP+/QSFP28/QSFP-DD connectors and process the data packets without affecting the active line and redistribute them according to your wishes.

By filtering out the data with hardware based filtering mechanisms prior to rejection, you can, for example, evaluate several 10G lines with existing 1G analysis tools and at the same time reduce the amount of data for trouble-free and reliable analysis. Data that is not of interest is either discarded or sent to other tools for further analysis.

AGGREGATION

Aggregate traffic from multiple TAP, SPAN, and network links into a unified monitoring stream. PacketLion consolidates high-density network feeds and simplifies traffic distribution, enabling monitoring and security tools to efficiently analyze data from across the entire infrastructure

VISIBILITY

Provide comprehensive visibility across multiple network segments by centralizing packet streams for monitoring and analysis. PacketLion ensures security and observability tools receive consistent traffic feeds, helping teams detect threats, troubleshoot performance issues, and monitor network activity more effectively.

SCALABILITY

Scale network visibility architectures with a high-density aggregation layer designed for large environments. PacketLion enables organizations to efficiently connect multiple network segments and monitoring tools, supporting growth in traffic volumes and infrastructure complexity.

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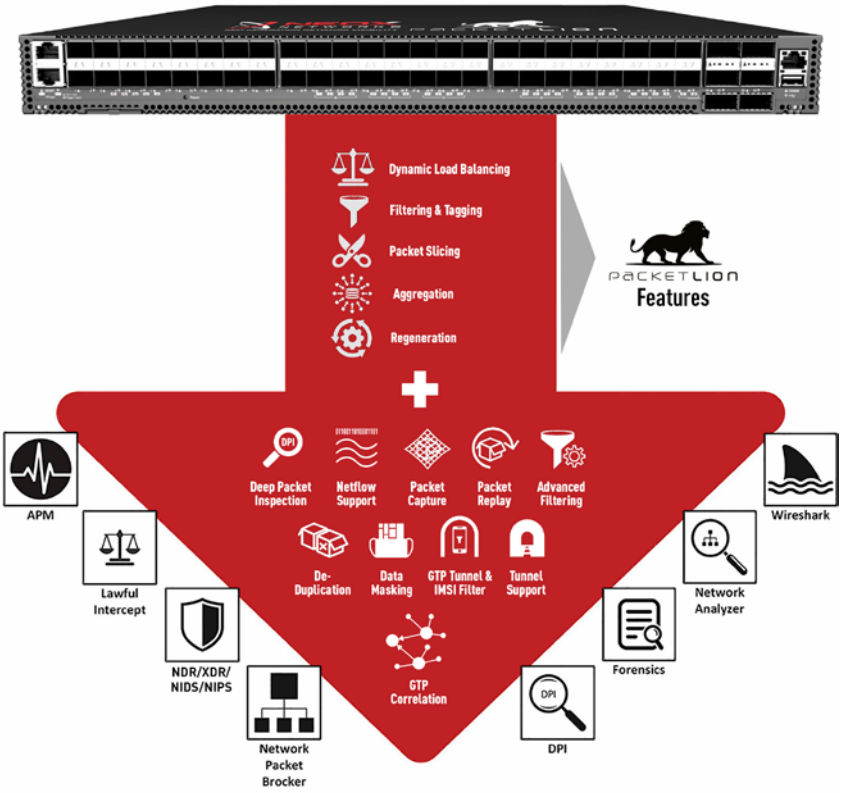
HIGHLIGHTS

Line rate performance without packet loss	Digital Diagnostics Monitoring (DDM)
Non-blocking backplane architecture with N+1 redundancy	Radius and TACACS+
Stacking of multiple Network Packet Broker systems possible	Modular through RJ45/SFP+/SFP28/QSFP+/QSFP28/QSFP-DD Interfaces
Support for L3GRE, L2GRE and VxLAN tunnelling protocol	Logging through Syslog and SNMP traps
Load distribution based on 5-tuple criteria	N+1 redundant, hot-swap capable fans
Port Splitting (simplex mode)	Hot-swap capable, load sharing and redundant AC/DC power supplies
Port Labeling	8GB Deep Buffer to eliminate packet loss because of micro bursts
Support for Jumbo Frames	MPLS stripping, up to 9 labels
Timestamping (per port/per filter rule)	Packet Slicing

FEATURES

- Flexible port assignment (1:1, N:N, N:1, 1:N)
- Aggregation of 1G, 2.5G, 10G, 25G, 40G, 50G, 100G, 200G and 400G network ports
- Support for filtering rules (MAC, VLAN, IPv4/IPv6, TCP/UDP, DSCP, TCP Flags, MPLS, Ingress, Egress)
- Filtering within a tunnel (GTP, L2TP, MPLS, GRE, PPPoE, VxLAN)
- Aggregation and regeneration of any network traffic
- Support for User-Defined Filter rules (UDF)
- Multiple management options (CLI, SSH, SNMP V2/V3, WEB UI, Net CONF and REST API)
- Configure all PacketLion (and PacketTiger) Brokers via a Single-Pane-Of-Glass with our PacketDirector



USE CASES

- Aggregation of TAP/SPAN traffic in a central location to provide data efficiently to security and monitoring tools.
- Decide for yourself which network traffic you want to forward to which analysis system.
- Intelligent load distribution of all data traffic according to the capacity of your connected monitoring systems.
- Regeneration of the data traffic, for example to be able to provide the network data to several security systems in parallel.
- Use the inline options of PacketLion and simply connect several tools in series to increase your network security (can be combined with intelligent Load Balancing).
- Layer 2 matrix switch functionality for any interconnection of network data (many to one, one to many, many to many, any to any), easy media conversion through modular design (SFP+/SFP28/QSFP+/QSFP28/QSFP-DD).
- Intelligent filter rules allow you to sort out the network data to be analysed without loss or interruption.
- Enables you to evaluate 1G/2.5G/10G/25G/40G/50G/100G/200G/400G network lines using 1G/2.5G/10G/25G/40G/50G/100G /200G/400G monitoring systems

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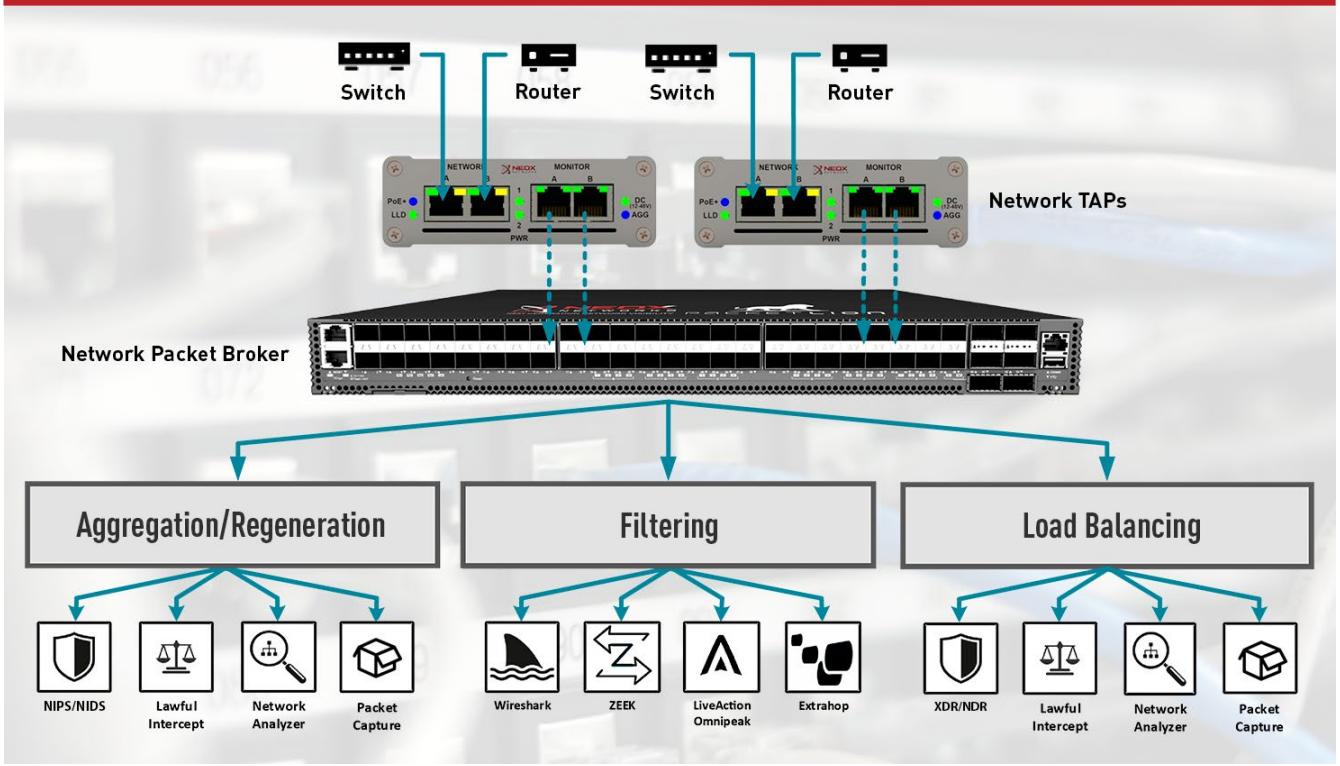
EXAMPLE SCENARIO



MODELS

Model: NX-PBPL-3XL

Model: NX-PBPL-2L

Model: NX-PBPL-1SC

Model: NX-PBPL-1S2

Model: NX-PBPL-1L

SKU	PORTS		FAN OUT / BREAK OUT
	QSFP28 PORTS	QSFP-DD PORTS	
NX-PBPL-3XL	-	32x 40G/100G/200G/400G	128x 10G/25G/40G/50G/100G/200G (via QSFP-DD)
NX-PBPL-2L	32x 40G/100G	-	64x 50G, 128x 1G/10G/25G (via QSFP28)

SKU	PORTS					FAN-OUT/BREAK-OUT
	RJ45	SFP+	SFP28	QSFP+	QSFP28	
NX-PBPL-1SC	48x 10/100/1000M	6x 1G/10G	-	-	-	-
NX-PBPL-1S2	-	48x 1G/10G	-	-	6x 40G/100G	12x 1G/10G/25G/50G (via QSFP28)
NX-PBPL-1L	-	-	48x 1G/10G/25G	-	8x 1G/10G/40G/100G	16x 50G, 32x 10G/25G (via QSFP28)

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NEOX NETWORKS GmbH
Monzastr. 4 · 63225 Langen · Germany
+49 6103 / 37 215 910 · solutions@neox-networks.com · www.neox-networks.com