NEOX NETWORKS
NEXT GENERATION NETWORK VISIBILITY

NEOX**PacketLion NX-PBPL-3XL**

EFFICIENT MONITORING OF SEVERAL 400G LINES WITH YOUR 10G-400G 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.

Media type and speed of your network do not matter, as these devices are equipped with 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 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.

PACKETLION

FEATURES

Flexible port assignment (1:1, N:N, N:1, 1:N)
Aggregation of 10G, 25G, 40G, 50G, 100G, 200G and 400G 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)
Multiple management options (CLI, SSH, SNMP V2/V3, WEB UI, Net CONF and REST API)
Logging through Syslog and SNMP Traps

HIGHLIGHTS

Line rate performance without packet loss
Non-blocking backplane architecture with N+1 redundancy
Support for L3GRE tunnelling protocol
Load distribution based on 5-tuple criteria
Port Splitting (Simplex Mode), Port Labeling
Support for Jumbo Frames
Timestamping
MAC Replace
Radius and TACACS+
Modular due to QSFP-DD interfaces
5+1 redundant, hot-swappable fans
Hot-swappable, load-sharing and redundant AC/DC power supplies
Packet Slicing

USE CASES

Aggregation of TAP/SPAN traffic in a central location to efficiently provide security and monitoring tools with the data.

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.

Use the inline options of our PacketLions and simply connect several tools in series to increase your network security (can be combined with intelligent Load Balancing).

Regeneration of data traffic, for example to be able to provide the network data to several security systems in parallel.

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 (QSFP-DD).

Intelligent filter rules let you sort out the network data to be analysed without loss and without interruption.

Enables you to evaluate 10G/25G/40G/50G/100G/200G/400G network lines using 1G/10G/25G/40G/50G/100G monitoring systems.

EXAMPLE SCENARIO
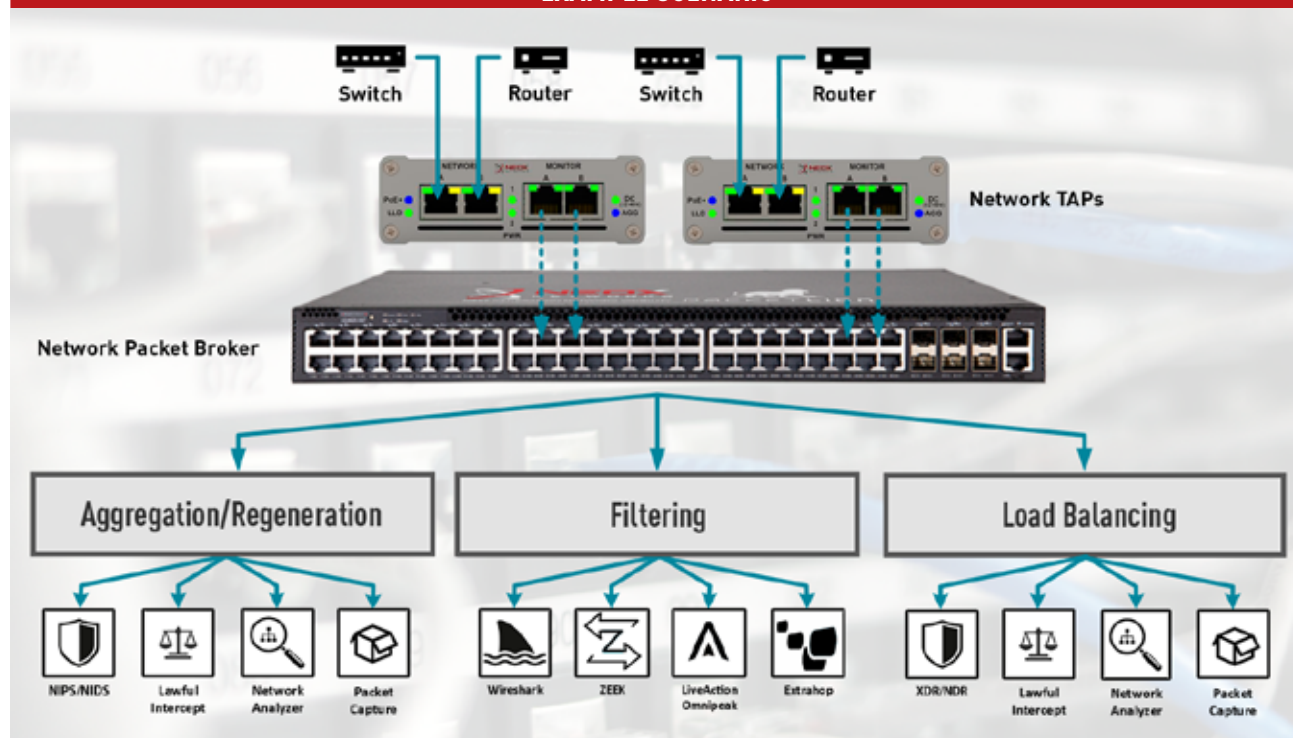
TECH SPECS

| CHIPSET	DIMENSIONS (WxHxD) / RU	WEIGHT
BCM56980 Tomahawk III	43.8 cm x 4.3 cm x 53.6 cm / 17.3˝ x 1.7˝ x 21.1˝ / 1RU	ca. 11 kg

POWER SUPPLY		
AC input range: 100~240 VAC at 50-60 Hz. redundant, power sharing, hot-swappable		

OPERATING TEMPERATURE	STORAGE TEMPERATURE	OPERATING HUMIDITY
0°C to 45°C / 32°F to 113°F	-40°C to 70°C / -40°F to 158°F	5% to 95% non-condensing

CERTIFICATIONS
Emissions: EN 55032:2015+AC:2016 Class A, EN 61000-3-2:2014 Class A, EN 61000-3-3:2013, FCC Class A, VCCI Class A, CCC GB 9254-2008 Class A; Immunity: EN 55035:2017, EN 55024:2010+A1:2015, IEC 61000-4-2/3/4/5/6/8/11; Safety: UL (CSA 22.2 No 62368-1 & UL62368-1), CB (IEC/EN60950-1 & IEC/EN 62368-1), CCC GB4943.1-2011
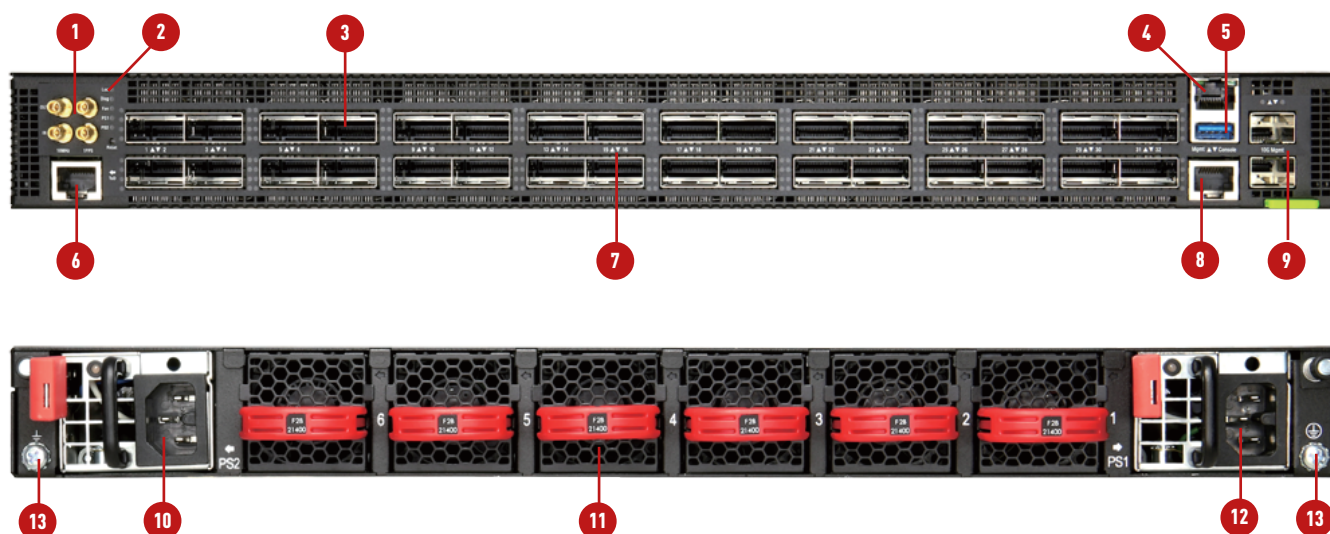
INTERFACES

1	10 MHz and 1 PPS Timing Ports	6	ToD (Time of Day) Port	11	Hot-Swappable, 5+1 Redundant Fans
2	System LEDs	7	Port Indicators	12	Power Supply Unit 1
3	32 x 400G QSFP-DD Ports	8	Console Port	13	Grounding Point
4	1x RJ45 Management Port*	9	2x 10G SFP+ Management Ports*		
5	USB Storage Port	10	Power Supply Unit 2		

* Multiple Management IPs possible

SKU	40G/100G/200G/400G	40G/200G	10G/25G/50G/100G
NX-PBPL-3XL	32x QSFP-DD	64x (Fan Out/Break Out via QSFP-DD)	128x (Fan Out/Break Out via QSFP-DD)

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TÜV SÜD

ISO 9001
Certified
Quality Management System
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