

NEOXPacketGrizzly

MODULAR AND SCALABLE 100G NETWORK FORENSICS SOLUTION FOR ULTRA-FAST CAPTURING, INDEXING, SEARCHING AND ANALYSIS OF NETWORK DATA IN REAL TIME!



HIGHLIGHTS

-  Up to 100Gbps WTD Full Packet Capturing
-  Up to 3 High-Speed Smart FPGA Capture Cards
-  Storage Capacity up to 2.016 TB (Ring Network = 8.064 TB)
-  Hardware Encrypted Capture Storage
-  IEEE 1588v2 Precision Time Protocol
-  FPGA-based Nanosecond Timestamping
-  FPGA-based Packet Slicing & Capture Filter
-  FPGA-based Deduplication
-  Hardware RAID or ADAPT
-  PCAP & PCAPNG Support
-  Development, Assembly & QA in Germany

PacketGrizzly, an industry-leading, modular solution for packet capture and analysis, enables real-time and post-event analysis in networks with speeds of up to 100Gbps write-to-disc full packet capturing. With packet slicing and/or compression enabled, up to 125 Gbps and more are possible.

PacketGrizzly is able to record up to several petabytes of traffic without any packet loss, and also provides extremely powerful software for real-time analysis of live network traffic and forensic network analysis of recorded data traffic.

These additional integrated network forensics features enable continuous monitoring and detailed analysis of network traffic by capturing every packet for in-depth investigation and troubleshooting.

Equipped with powerful storage and processing capabilities, it can reconstruct sessions, identify anomalies, and provide critical insights into potential security breaches or network inefficiencies.

This advanced functionality simplifies incident response and regulatory compliance, ensuring that organizations have a robust tool to investigate past events and improve their network security.

PacketGrizzly consists of a capture appliance for packet capture and, depending on the required storage space, internal storage in the capture appliance or up to four external storage appliances on which the captured packet data is recorded.



HIGHLIGHTS & KEY FEATURES

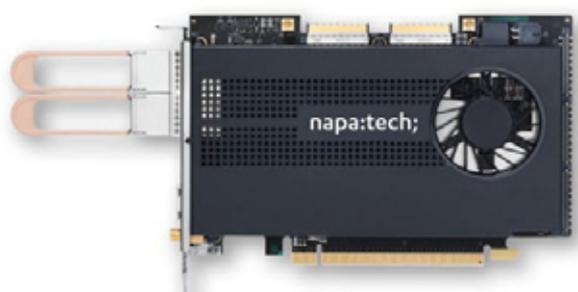
Continuous lossless 100G WTD (Write to disc) Full Packet Capturing (FPC)
Up to 125G WTD-FPC with Packet Slicing and/or compression enabled
Up to 3 High-Speed Smart FPGA Capture Cards for 1G/10G/25G/40G/100G per Capture Appliance
FPGA-based Deduplication
FPGA-based Dynamic Packet Slicing and Capture Filters
FPGA-based nanosecond-accurate Timestamping
Supports IEEE 1588v2 PTP
PCAP or PCAPNG support
Intuitive WebUI for advanced analysis and PCAP Export
Storage capacity from 38 TB to 2.016 TB (via ring network with 4 appliances up to 8.064 TB)
Hardware RAID 0, 1, 5, 6, 10, 50 or ADAPT
Up to 24x 2.5" Enterprise SSDs
8GB/12GB Hardware Buffer to absorb and analyse microbursts
Operating system on RAID 1 NVMe M2 SSD, BOSS
Integrated, reliable expert events, reference to conspicuous features of the OSI Layer 2-7
Acceleration of the Mean-Time-To-Resolution (MTTR) through visualization and interaction with meta data, communication flows and the packets themselves
Packet-based analysis of communication relationships, visualized in intuitive graphical displays
VoIP-/Video analysis
Troubleshooting of Performance Issues
Optional support for hardware-encrypted capture storage, protects your data from unauthorised access. FIPS 140-2 certification and complies with ISO/IEC 27040 and NIST 800-88 standards
10G management interface
Rackmountable, 2U (capture appliance), 5U (storage appliance)
Redundant power supplies
Includes 1 year hardware, software and maintenance support
Development, assembly & QA in Germany

Hardware - Capture-Karten

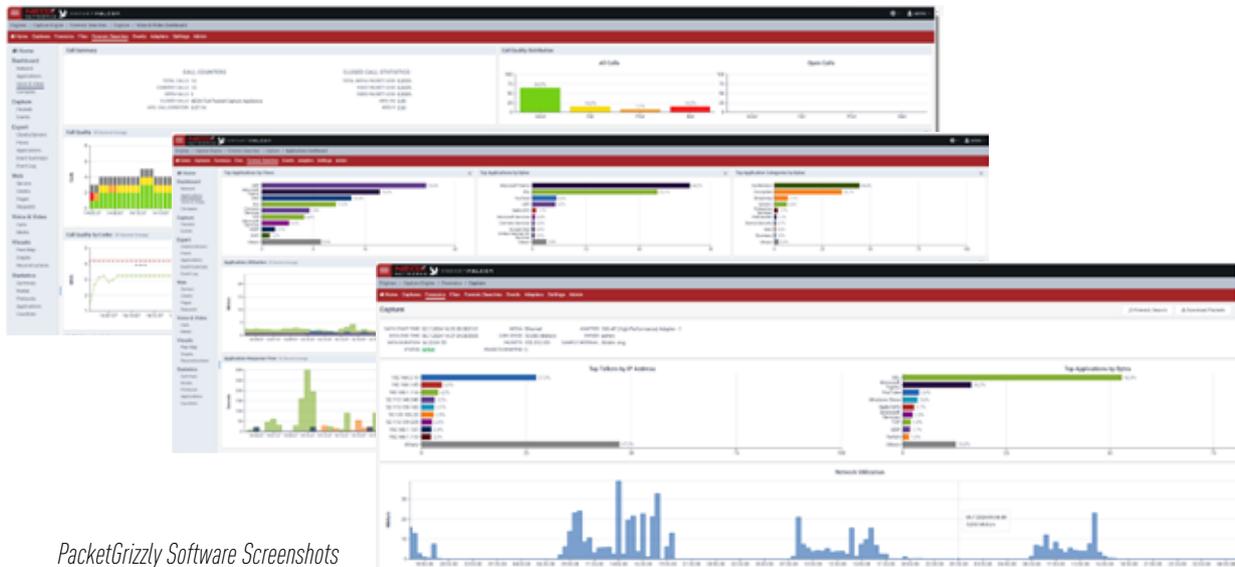
CAPTURE APPLIANCE - AVAILABLE FPGA-BASED CAPTURE CARDS

4-Port 1G/10G/25G FPGA Capture Card (SFP/SFP+/SFP28)

2-Port 25G/40G/100G FPGA Capture Card (QSFP+/QSFP28)



Software - Packet Capture & Network Forensics



PacketGrizzly Software Screenshots

- Lossless capture and recording of 1G, 10G, 25G, 40G and 100G network traffic while ensuring full data integrity.
- Powerful data preparation tools that allow IT technicians to focus on specific time spans and types of traffic.
- Built-in analytics, including expert analysis and critical network metrics such as top talkers and top logs, all of which contribute to accelerated investigation of potential attacks.
- Network data is hardware time-stamped with nanosecond accuracy as it arrives. GPS, PPS, PTP and other external time sources are supported.

Technical Specifications - Capture Appliance with internal storage

- Capture card(s): Smart high-speed FPGA capture card(s) for 1G/10G/25G/40G/100G
- Ports: SFP/SFP+/SFP28/QSFP+/QSFP28
- SSD storage capacity: 90 TB – 720 TB
- Hardware RAID: 0, 50, 60, 5, 6
- RAM: 128 GB - 512 GB
- Power supply: 2x 1100W
- Housing: 19" rackmount, 2RU
- Dimensions (WxHxD): 48.3 cm x 8.7 cm x 77.2 cm / 19.0" x 3.4" x 30.4"
- Weight: max. 30 kg
- Operating temperature: 5°C to 45°C / 41°F to 113°F
- Storage temperature: -40°C to 65°C / -40°F to 149°F
- Relative humidity - Operating: 8% to 90% (non-condensing)
- Relative humidity - Storage: > 5% to 95% (non-condensing)
- Certifications:
 - Safety: EN IEC 62368-1:2020 +A11:2020, EN IEC 62311:2020, EN 62479:2010
 - EMC: EN 55032:2015 +A11:2020, EN 55035:2017 +A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013
 - RoHS: EN IEC 63000:2018

Technical Specifications - Capture Appliance with external storage

- Capture card(s): Smart high-speed FPGA capture card(s) for 1G/10G/25G/40G/100G
- Ports: SFP/SFP+/SFP28/QSFP+/QSFP28
- SSD storage capacity of the (additionally required) storage appliance: 504 TB - 8,064 TB
- RAM: 128 GB - 256 GB
- Power supply: 2x 1100W
- Housing: 19" rackmount, 2RU
- Dimensions (WxHxD): 48.3 cm x 8.7 cm x 77.2 cm / 19.0" x 3.4" x 30.4"
- Weight: max. 30 kg
- Operating temperature: 5°C to 45°C / 41°F to 113°F
- Storage temperature: -40°C to 65°C / -40°F to 149°F
- Relative humidity - Operating: 8% to 90% (non-condensing)
- Relative humidity - Storage: > 5% to 95% (non-condensing)
- Certifications:
 - Safety: EN IEC 62368-1:2020 +A11:2020, EN IEC 62311:2020, EN 62479:2010
 - EMC: EN 55032:2015 +A11:2020, EN 55035:2017 +A11:2020, EN 61000-3-2:2014, EN 61000-3-3:2013
 - RoHS: EN IEC 63000:2018

Technical Specifications - Storage Appliance / external storage

- Storage capacity: 504 TB – 8,064 TB
- Storage units: Up to 4 storage appliances per capture appliance
- Hardware RAID: 0, 1, 5, 6, 10, 50 or ADAPT
- SAN: eSAS, iSCSI and Fibre Channel
- Self-healing drives: Yes
- Redundant power supply: 2x 2200W, typical power consumption 1200W, Platinum
- Housing: 19" rackmount, 5RU
- Dimensions (WxHxD): 48.3 cm x 22.2 cm x 98.1 cm / 19.0" x 8.7" x 38.6"
- Weight: min. 82 kg (without drives) / max. 135 kg (fully equipped)
- Operating temperature: 5°C to 35°C / 41°F to 95°F
- Storage temperature: -40°C to 70°C / -40° to 158°F
- Relative humidity - Operating: 10% to 80% (non-condensing)
- Relative humidity - Storage: > 5% to 100% (non-condensing)
- Certifications: Standard Marks/Approvals: United States, Canada, European Union (EU), Australia/New Zealand, Japan, China (PRC), Russia, Mexico, Germany, South Korea, Taiwan, India;
 - Safety Certifications: UL 62368-1 | CAN/CSA-C22.2 No.62368-1- 19 | CE to EN 62368-1 | CB IEC 62368-1 | Power Supplies CCC & BIS;
 - Emissions (EMC): FCC CFR 47 Part 15 Subpart B Class A | ICES/NMB-003 Class A | EN 55032:2015 Class A | AS/NZS CISPR 22/CISPR 32 Class A | VCCI Class A | KN 32/KN 35 Class A | CNS 15936 Class A;
 - Harmonics & Flicker: EN 61000-3-2 | EN 61000-3-3; Immunity: EN 55032 | KN 32/KN 35;
 - Environmental Standards: The RoHS Directive (2011/65/EU) | The WEEE Directive (2012/19/EU) | The REACH Directive (EC) No. 1907/2006 and WFD Directive (EU) 2018/815

Capture Appliance with external storage - MODELS



SKU	RAM	PORTS
NX-LC-25G-SRV*	256 GB	4x 1G/10G/25G SFP28
NX-LC-25G40G-SRV*	256 GB	4x 1G/10G/25G SFP28, 2x 40G QSFP+ / 8x 10G (fan-out)
NX-LC-40G-SRV*	256 GB	2x 40G QSFP+ / 8x 10G (fan-out)
NX-LC-25G100G-SRV*	256 GB	2x 100G QSFP28 / 2x 40G QSFP+ / 2x 25G (adapter) / 8x 10G (fan-out) / 4x 1G/10G/25G SFP28
NX-LC-100G-SRV*	256 GB	2x 100G QSFP28 / 2x 40G QSFP+ / 8x 25G (fan-out) / 8x 10G (fan-out)

* With „-3Y“ for 3 year – or „-5Y“ for 5 year software subscription and hardware support

Storage Appliances / external storage units - MODELS



SKU	GROSS STORAGE SPACE*	SCALING	CONNECTIVITY
NX-LC-504-STG (5U)	504 TB	The Storage Appliances can be expanded in a ring network to a total of 4 appliances with a total gross capacity of up to 8,064 TB.	All Storage Appliances can be accessed via eSAS, iSCSI or Fibre Channel
NX-LC-1008-STG (5U)	1,008 TB		
NX-LC-2016-STG (5U)	2,016 TB		

* The net storage size actually available depends on the operating system, RAID level, formatting, file system, etc.

Capture Appliance with internal storage - MODELS



SKU	RAM	SSD**	PORTS
NX-LC-25G-90TB-SA*	256 GB	90 TB	4x 1G/10G/25G SFP28
NX-LC-25G-180TB-SA*	256 GB	180 TB	4x 1G/10G/25G SFP28
NX-LC-25G-360TB-SA*	256 GB	360 TB	4x 1G/10G/25G SFP28
NX-LC-25G-720TB-SA*	256 GB	720 TB	4x 1G/10G/25G SFP28
NX-LC-40G-90TB-SA*	256 GB	90 TB	2x 40G QSFP+ / 8x 10G (Fan-out)
NX-LC-40G-180TB-SA*	256 GB	180 TB	2x 40G QSFP+ / 8x 10G (Fan-out)
NX-LC-40G-360TB-SA*	256 GB	360 TB	2x 40G QSFP+ / 8x 10G (Fan-out)
NX-LC-40G-720TB-SA*	256 GB	720 TB	2x 40G QSFP+ / 8x 10G (Fan-out)

SKU	RAM	SSD**	PORTS
NX-LC-100G-90TB-SA*	512 GB	90 TB	2x 100G QSFP28 / 2x 40G QSFP+ / 2x 25G (Adapter) / 8x 10G (Fan-out)
NX-LC-100G-180TB-SA*	512 GB	180 TB	2x 100G QSFP28 / 2x 40G QSFP+ / 2x 25G (Adapter) / 8x 10G (Fan-out)
NX-LC-100G-360TB-SA*	512 GB	360 TB	2x 100G QSFP28 / 2x 40G QSFP+ / 2x 25G (Adapter) / 8x 10G (Fan-out)
NX-LC-100G-720TB-SA*	512 GB	720 TB	2x 100G QSFP28 / 2x 40G QSFP+ / 2x 25G (Adapter) / 8x 10G (Fan-out)
NX-LC-25G100G-90TB-SA*	512 GB	90 TB	2x 100G QSFP28 / 2x 40G QSFP+ / 8x 10G (Fan-out) / 4x 1G/10G/25G SFP28
NX-LC-25G100G-180TB-SA*	512 GB	180 TB	2x 100G QSFP28 / 2x 40G QSFP+ / 8x 10G (Fan-out) / 4x 1G/10G/25G SFP28
NX-LC-25G100G-360TB-SA*	512 GB	360 TB	2x 100G QSFP28 / 2x 40G QSFP+ / 8x 10G (Fan-out) / 4x 1G/10G/25G SFP28
NX-LC-25G100G-720TB-SA*	512 GB	720 TB	2x 100G QSFP28 / 2x 40G QSFP+ / 8x 10G (Fan-out) / 4x 1G/10G/25G SFP28

* With „-3Y“ for 3 year – or „-5Y“ for 5 year software subscription and hardware support

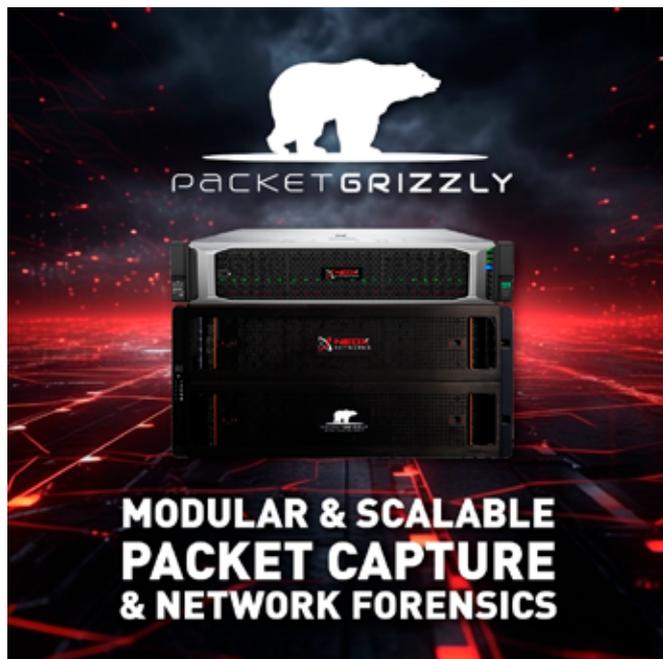
** Further configurations on request



Capture Appliance with internal storage - UPGRADES



SKU	DESCRIPTION
NX-LC-UPG-100G-SA	Upgrade of the PacketGrizzly system to support 2x 100G. Applicable for systems with already installed 40G capture cards like NX-LC-40G-xxxx-SA.
NX-LC-UPG-40G-SA	Upgrade of the PacketGrizzly system to support 2x 40G. Applicable for systems with already installed 25G capture cards like NX-LC-25G-xxxx-SA.





Modular, portable and virtual **NETWORK TAPS** for up to 400G



PACKETHAWK
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PACKETROO
DATA DIODE for secure file transfer



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Portable & Compact **PACKET CAPTURE** Solutions



PACKETGRIZZLY

Modular & Scalable **NETWORK FORENSICS** Solution



PACKETLION

High-End HD **NETWORK PACKET BROKER** for up to 400G



PACKETTIGER

Cost Efficient Next-Gen **NETWORK PACKET BROKER**
as Appliance or Virtual



Centralised
NETWORK MANAGEMENT SYSTEM



PACKETWOLF

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