



PACKETFALCON



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NEOXPacketFalcon



**Your Portable 100G Network Forensics Appliance
for ultra-fast capturing, indexing, searching and
analysis of network data in real time!**

As a manufacturer and solution provider NEOX NETWORKS offers extensive know-how and technologies in the areas of network forensics, troubleshooting, performance monitoring, cyber security and much more. Networks continue to increase in speed and complexity. Security attacks will evolve in complexity and camouflage. Business operations will continue to be network-based. For an optimal and safe IT service quality, IT security teams must have permanent access to detailed analysis of network traffic. Network forensics provides the essential access and insight security analysts need.

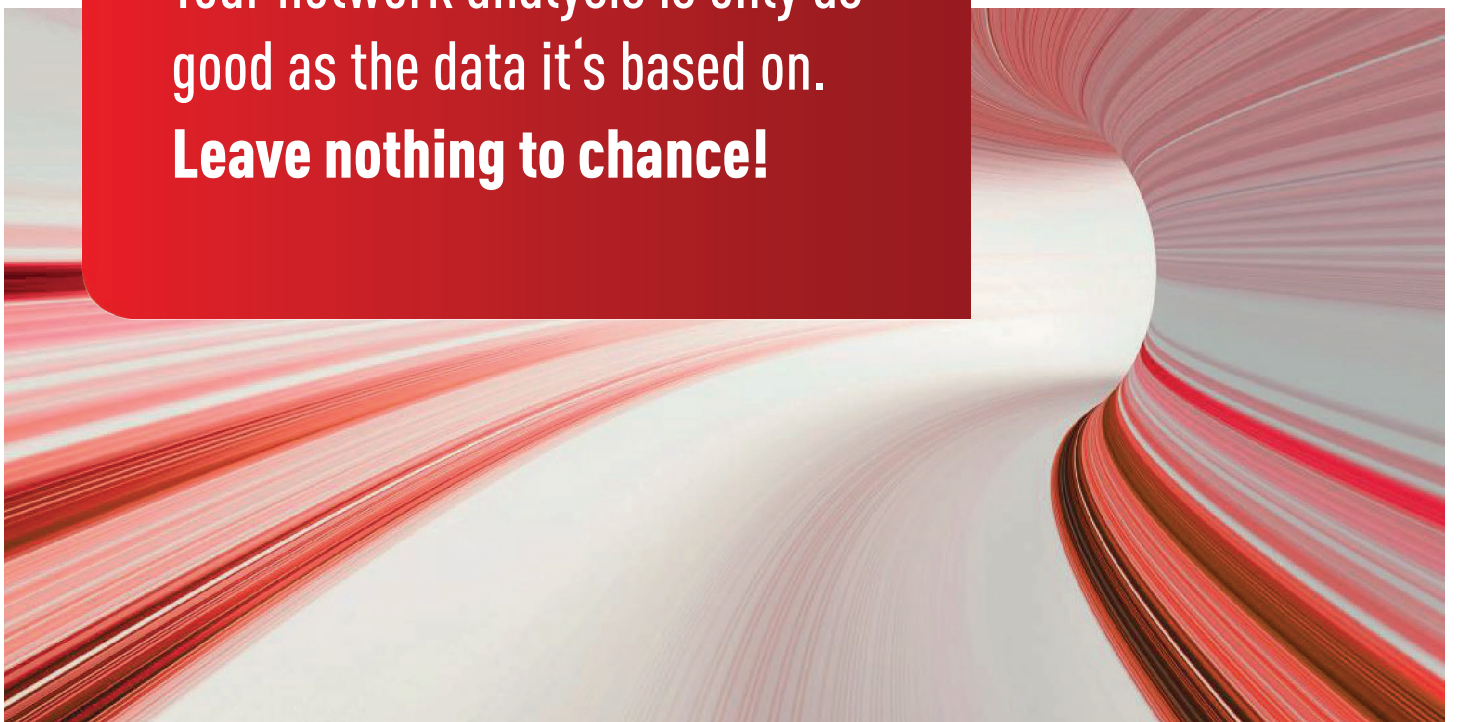
Our PacketFalcon products are powerful network speed recorders that enable IT organizations to analyze, monitor and accurately capture traffic without compromise. PacketFalcon allows permanent 24 x 7 access to 1G, 10G, 25G, 40G and 100G network media for detailed analysis, including forensic analysis of past events.

PacketFalcon supports security teams in their analysis by recording data at critical network points and at the same time keeps the traffic that can result from this data collection as low as possible. By indexing the data and providing simple and complex filters (Berkeley Packet Filters), PacketFalcon enables security teams to quickly investigate and stop attacks, even when they occur in state-of-the-art high-speed networks such as 40G or 100G network topologies.

With the NEOXPacketFalcon, our proven Deep Packet Inspection technology can be quickly and easily brought into remote network segments. Its robust construction and Linux operating system, either 24TB, 51TB, 102TB or 240TB of disk space and 1G/10G/25G/40G/100G High Performance Gigabit Capture Adapter, make it the ideal companion for the mobile network analysis and forensics specialist.

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**Your network analysis is only as
good as the data it's based on.
Leave nothing to chance!**



Hardware Overview

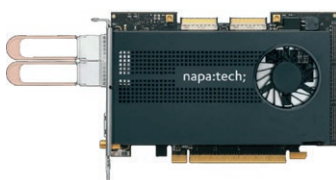
- ▶ 17,3" Full HD 1920 x 1080 Display
- ▶ Robust aluminium housing
- ▶ AMD EPYC CPU
- ▶ Quiet fan, 658W power supply unit
- ▶ Keyboard, lockable as display protection during transport
- ▶ Mainboard with 5 x PCIe 4.0 x 16 Lane
- ▶ 10G Ethernet Management Interface
- ▶ High-Speed FPGA capture card(s) for 1G/10G/25G/40G/100G
- ▶ USB 3.0, USB 2.0, Serial Port
- ▶ Hardware RAID 0,1,5,6,10
- ▶ NVMe M2 SSD for operating system, 16x 2.5" SSD SAS removable frames
- ▶ Storage capacity between 24 TB and 240 TB
- ▶ 256 GB DDR4 RAM (optional up to 1024 GB RAM)

- ▶ Support for hardware encrypted capture memory, protects your data from unauthorized access. FIPS 140-2 certification and complies with ISO/IEC 27040 and NIST 800-88 standards.
- ▶ Dimensions (W x H x D): 43,5 x 37,3 x 17,8 cm, approx. 15 kg
- ▶ Optional: hard shell case or on-board case (aircraft)



Pre-installed Soft- and Hardware

The NEOXPacketFalcon comes with a combination of leading software and hardware solutions and includes the following components:



▶ Software

- 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 Engineers to focus on specific time spans and types of traffic.
- Integrated analytics, including expert analytics and critical network metrics, such as top talkers and top protocols, all of which can be combined into one accelerated investigation of possible attacks.
- The network data is provided with a hardware timestamp with nano-second accuracy upon arrival. GPS, PPS, PTP and other external time sources are supported.

▶ Napatech (Capture Card)

The NEOXPacketFalcon can be equipped simultaneously with three of the following FPGA based network capture cards:

- 1G/10G/25G (High Performance) FPGA adapter (SFP/SFP+/SFP28) k
- 25G/40G/100G (High Performance) FPGA adapter (QSFP+/QSFP28)



Highlights

- ▶ Acceleration of the Mean-Time-To-Resolution (MTTR) through visualization and interaction with meta data, communication flows and the packets themselves
- ▶ Extensive insight into the functioning of networks and applications including recognition/classification of applications
- ▶ Analysis of the network traffic in each remote segment, support of 1/10/25/40/100 Gigabit Ethernet
- ▶ Voice and Video over IP quality metrics (MOS Score), including overview statistics and comprehensive analysis of signaling and RTP media flows
- ▶ Packet-based analysis of communication relationships, visualized in intuitive graphical displays
- ▶ Integrated, reliable expert events, reference to conspicuous features of the OSI Layer 2-7
- ▶ Patented drill-down function
- ▶ Recording of terabytes of traffic without packet losses
- ▶ Hardware/FPGA based timestamps with nanosecond precision
- ▶ PTP support for external time synchronization according to IEEE 1588v2
- ▶ Simultaneous unlimited access via Web GUI
- ▶ Hardware/FPGA based Packet Slicing and Capture Filter
- ▶ 8GB/12GB hardware buffer to absorb bursts
- ▶ PCAP or PCAPNG Support
- ▶ Including trolley



TECHNICAL SUPPORT

Customers of NEOX NETWORKS receive direct and uncomplicated German and English speaking support by experienced engineers via e-mail/web and telephone from 9:00 to 17:00 (CET). Our support includes assistance in solving problems related to the hardware AND software.

On-site support is available on request.



HARDWARE WARRANTY

To help you quickly, have the serial number of the hardware and information about the error message ready (when and how it occurred, or what preceded the error). It is also important to have a summary of what operations have been done on the traffic recorder.

The NEOX NETWORKS Support Center proactively informs you about the further procedure in case of repair.

Global Support:

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