

// NEOXPacketFalcon



NEOXPacketFalcon



powered by LiveCapture

**YOUR COST-EFFECTIVE PLATFORM FOR ULTRA-FAST
CAPTURING, INDEXING, SEARCHING AND ANALYSIS OF
NETWORK DATA IN REAL TIME!**

As a manufacturer and distributor **NEOX NETWORKS GmbH** 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. To ensure that networks function optimally and securely, 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, 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**, Deep Packet Inspection technology can be quickly and easily brought into remote network segments. Its robust construction and Linux operating system, from 16 TB to up to 112 TB of disk space and 1/10/40/100G High Performance Gigabit Capture Adapter, make it the ideal companion for the mobile network analysis and forensics specialist.

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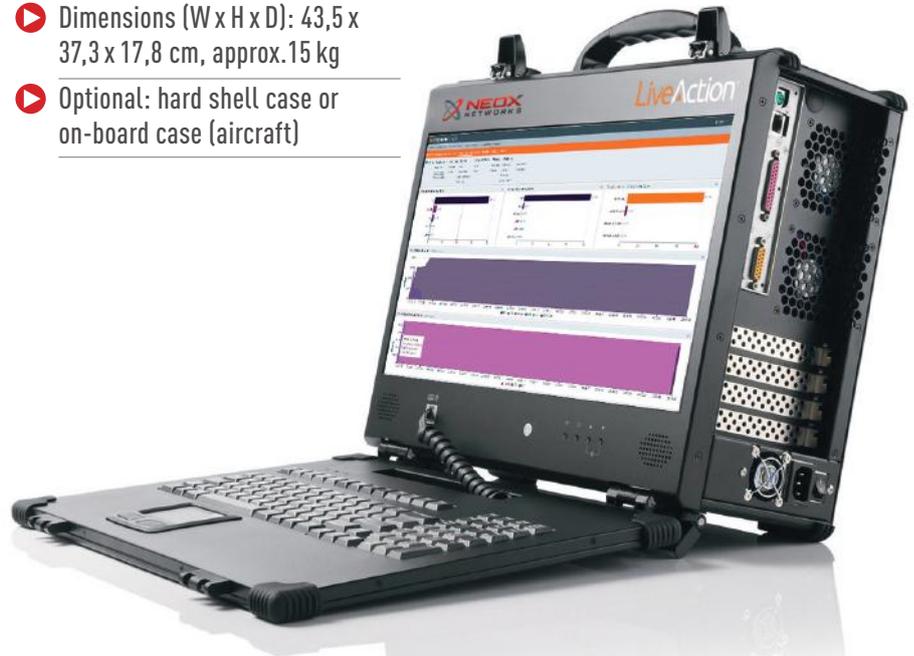
**YOUR NETWORK ANALYSIS IS
ONLY AS GOOD AS THE DATA IT'S
BASED ON. LEAVE NOTHING TO
CHANCE!**



HARDWARE OVERVIEW

- ▶ 17,3" Full HD 1920 x 1080
- ▶ Robust aluminium housing
- ▶ Intel Dual XEON (2 x 8 cores)
- ▶ Quiet fan, 658W power supply unit
- ▶ Keyboard, lockable as display protection during transport
- ▶ Mainboard with 2 x PCIe 3.0 x 16 Lane, 2 x PCIe 3.0 x 8 Lane (1 occupied)
- ▶ 2x Gigabit LAN RJ-45 (optional 10G)
- ▶ High-speed FPGA capture card for 1/10/40/100G
- ▶ USB 3.0, USB 2.0, serial port, Hardware RAID 0,1,5,10
- ▶ 250 GB SSD M2 for operating system
- ▶ 16 pieces 2.5" SSD/HDD SAS removable frames, up to 112 TB storage space
- ▶ Storage capacity between 16 TB and 112 TB

- ▶ 128 GB DDR4 RAM (optional 256 GB RAM)
- ▶ RAID controller LSI MegaRaid, PCIe x 8
- ▶ 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:

▶ LiveCapture (Software)

- Lossless capture and recording of 1G, 10G, 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 two of the following FPGA based network capture cards:

- 1/10G (High Performance) FPGA Adapter (SFP/SFP+)
- 40/100G (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 packages 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 1/10/40/100 Gigabit Ethernet and 802.11 Wireless
- ▶ Voice and Video over IP quality metrics (MOS Score), including overview statistics and comprehensive analysis of signaling and RTP media flows
- ▶ Package-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 based time stamps with nanoseconds precision
- ▶ PTP support for external time synchronization according to IEEE 1588v2
- ▶ Cascading of multiple PacketFalcon systems
- ▶ Simultaneous unlimited access via Web GUI („Peek“)
- ▶ Packet Slicing and Capture Filter in Hardware
- ▶ 4GB 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 18:00 (CET). The 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 support employee performs an additional error identification.

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