Available from Q1 2027

DATASHEET

PacketFalcon Portable SE

100G PACKET CAPTURE & NETWORK FORENSICS

PacketFalcon Portable Security Edition combines sustained high-speed packet capture with an integrated network forensic and security analysis environment in one portable appliance.



100 GBPS PACKET CAPTURE

FOR 1G/10G/25G 40G/100G

100% DATA NO PACKET LOSS

PCAP EXPORT

THREAT HUNTING

CARRY CASE INCLUDED

OVERVIEW

Designed for incident response, mobile security audits, retrospective threat hunting, and evidence collection, PacketFalcon captures full packet data from 1G, 10G, 25G, 40G, and 100G links and makes it available for deep investigation.
At the capture layer, NEOX enables sustained, lossless full-packet capture-to-disk at speeds up to 100 Gbps.
Captured traffic is stored in standard PCAP/PCAPNG format and can be investigated retrospectively using the integrated analysis environment.
Security teams can move from a broad observation to the relevant network session and, when required, directly to packet-level evidence and in near real time.

HIGHLIGHTS

- High speed 1G - 100G Packet Capture
- For 1G, 10G, 25G, 40G and 100G connections
- 100% PCAP data without packet loss
- Exports PCAP evidence & analysis result
- Enables retrospective Threat Hunting
- Integrated forensic analysis
- Searches & correlates network metadata, sessions, protocol activity, and security alerts
- Supports GDPR, PCI DSS, HIPAA, ISO/IEC 27001
- Configurable dashboards
- Highly portable in use
- Carry case included
- Designed, engineered & tested in Germany

USE CASES

Deploy during active investigations to capture the traffic surrounding suspicious behavior, preserve network evidence, and perform retrospective analysis

Bring high-speed packet capture and analysis directly to customer sites, branch offices, data centers or OT environments.

Search historical packet captures for indicators of compromise, lateral movement, suspicious sessions, unusual DNS behavior, and more.

SOFTWARE

PacketFalcon Portable SE combines high-speed, full-fidelity packet recording with an integrated forensic and security analysis environment, enabling analysts to inspect captured sessions, analyze protocol metadata, correlate IDS alerts, review dashboards, extract network artifacts, and drill down to the underlying packets. Built on proven industry-standard network analysis technologies, it supports flexible investigation workflows without mandatory cloud dependency.

// NEOX**PacketFalcon SE**

PACKETFALCON PORTABLE SE ENABLES YOU TO:

- Capture full-fidelity network traffic at speeds from 1G to 100G without packet loss.
- Investigate historical network activity down to individual sessions and packets.
- Search and correlate network metadata, sessions, protocol activity, and security alerts.
- Identify suspicious communication, protocol anomalies, file transfers, and other security-relevant activity.
- Perform retrospective threat hunting long after an incident occurred.
- Conduct mobile incident response, security audits, and temporary monitoring engagements.
- Preserve and export PCAP evidence and analysis results for investigation, escalation, and reporting.



PRIMARY USE CASES

Incident Response
Deploy PacketFalcon Portable SE during active investigations to capture traffic surrounding suspicious behavior, preserve network evidence, and perform retrospective analysis after the incident window has passed.

Portable Security Analysis and Audits
Bring high-speed packet capture and forensic analysis directly to customer sites, branch offices, data centers, OT environments, or temporary assessment locations.

Retrospective Threat Hunting
Search historical packet captures for indicators of compromise, lateral movement, suspicious sessions, unusual DNS behavior, file transfers, command-and-control patterns, and protocol anomalies.

Compliance and Evidence Collection
Preserve full-fidelity packet records to support regulated investigations, audit readiness, incident reports, and forensic workflows for environments but not limited subject to GDPR, PCI DSS, HIPAA, ISO/IEC 27001, NIST, and similar requirements.

DEPLOYMENT WORKFLOW

Network TAP, SPAN, or packet broker output is connected directly to PacketFalcon Portable SE. NEOX capture software records traffic to local high-speed storage in PCAP/PCAPNG format. The integrated analysis environment then enables analysts to search sessions, inspect protocol metadata, correlate security alerts, extract relevant artifacts, and export evidence for reporting.

// NEOXPacketFalcon SE

INTEGRATED FORENSIC ANALYSIS

PacketFalcon Portable SE goes beyond high-speed packet recording by combining full-fidelity network evidence with an integrated forensic and security analysis environment. Analysts can search and inspect captured sessions, analyze rich protocol metadata, correlate IDS-based security alerts, review dashboards, extract relevant network artifacts, and return directly to the underlying packets for detailed investigation.
The analysis environment is built on proven industry-standard network analysis technologies and provides a flexible investigation workflow without mandatory cloud dependency.



Analysis software screenshots

TECHNICAL SPECIFICATIONS

Hardware

Breakout support	Up to 8x 10G or 8x 25G, depending on configuration
Storage options*	60TB or 120TB
SSD design	16x 2.5-inch removable SSDs
RAID options	RAID 0, 5, 6, 00, 50, 60
Encrypted storage	Optional SED storage with hardware encryption
Timestamping	Nanosecond timestamping, IEEE 1588v2 PTP
Airflow	Side-to-side
Cooling	Dual fans

** Additional storage capacities available on demand.*

// NEOX**PacketFalcon SE**

Capturing & Software

Capture-to-Disc performance	Sustained lossless full-packet-capture up to 100Gbps
Capture variants	10G, 25G, 40G, 100G
Capture ports	2x QSFP28 (40G/100G) or 4x SFP28 (1G/10G/25G) or combination on demand
Capture formats	PCAP, PCAPNG
Platform OS	Hardened Linux-based appliance platform
Analyse stack	Integrated network forensic & security analysis suite

Power Supply

Power supply type	1000W 80Plus Gold, 100-240VAC
Input	AC: 1000W 100-240V~, 50-60Hz
Max. power consumption	800W

Certifications

Low Voltage Directive	2014/35/EU Electrical Equipment (Safety) Regulations 2016: EN IEC 62368-1:2020, EN 60335-1, EN 61010-1, EN 60204-1;
EMC Directive	2014/30/EU Electromagnetic Compatibility Regulations 2016: EN 55032:2015 +A11:2020 Class B, EN 55035:2017 +A11:2020, EN 61000-3-2:2014 Class D, EN IEC 61000-3-2:2019 +A1:2021, EN 61000-3-3:2013 , EN 61000-3-3:2013 +A1:2019
ROHS Directive	2011/65/EU, (EU)2015/863: EN IEC 63000:2018
Reach Certificate	1907/2006/EU
FIPS	FIPS 140-2

Dimensions & Weight

Dimensions (WxHxD)	43.5 x 37.3 x 17.8 cm / 17.1 in x 4.7 in x 7.0 in	Weight	ca. 15.0 kg / 33.0 lb

Environment

Operating temperature	0 ~ 40 °C / 32 ~ 104 °F
Operating humidity	20% - 80% (non-condensing)



PacketFalcon Portable SE

ORDER INFORMATION**

SKU	Description
NX-SE-10G-60TB-PT*	Capture-to-Disc performance: **10Gbps** **60TB** SSD storage 4x 1G/10G SFP+
NX-SE-10G-120TB-PT*	Capture-to-Disc performance: **10Gbps** **120TB** SSD storage 4x 1G/10G SFP+
NX-SE-25G-60TB-PT*	Capture-to-Disc performance: **25Gbps** **60TB** SSD storage 4x 1G/10G/25G SFP28
NX-SE-25G-120TB-PT*	Capture-to-Disc performance: **25Gbps** **120TB** SSD storage 4x 1G/10G/25G SFP28
NX-SE-40G-60TB-PT*	Capture-to-Disc performance: **40Gbps** **60TB** SSD storage 2x 40G QSFP+ / 8x 10G (Fan-out)
NX-SE-40G-120TB-PT*	Capture-to-Disc performance: **40Gbps** **120TB** SSD storage 2x 40G QSFP+ / 8x 10G (Fan-out)
NX-SE-100G-60TB-PT*	Capture-to-Disc performance: **100Gbps** **60TB** SSD storage 2x 100G QSFP28 / 2x 40G QSFP+ / 2x 25G (Adapter) / 8x 10G (Fan-out)
NX-SE-100G-120TB-PT**	Capture-to-Disc performance: **100Gbps** **120TB** SSD storage 2x 100G QSFP28 / 2x 40G QSFP+ / 2x 25G (Adapter) / 8x 10G (Fan-out)
NX-SE-25G100G-60TB-PT	Capture-to-Disc performance: **100Gbps** **60TB** SSD storage 2x 100G QSFP28 / 2x 40G QSFP+ / 8x 10G (Fan-out) / 4x 1G/10G/25G SFP28
NX-SE-25G100G-120TB-PT*	Capture-to-Disc performance: **100Gbps** **120TB** SSD storage 2x 100G QSFP28 / 2x 40G QSFP+ / 8x 10G (Fan-out) / 4x 1G/10G/25G SFP28

** „-3Y" for 3 years - or „-5Y" for 5 years hardware support*

*** Additional capacity variants follow the pattern **NX-SE-[speed]-[capacity]TB-PT** and are available on demand.*

SUPPORT & MAINTENANCE

PacketFalcon Portable SE includes 1 year of Support & Maintenance. Optional 3-year and 5-year Support & Maintenance terms are available.

ABOUT NEOX

NEOX Networks provides Next Generation Network Visibility for IT and OT observability and security. NEOX solutions help organizations strengthen cybersecurity, improve hybrid-cloud and infrastructure observability, and maintain business continuity by integrating network intelligence with real-time data-in-motion. Learn more at neoxnetworks.com

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