



NEWSLETTER

December 2024

OPTOKON Newsletter December 2024

Welcome to the latest edition of our newsletter!

In this issue, we're proud to spotlight our participation in SAHA EXPO 2024, where we introduced groundbreaking technologies like the BOUNCER-FO UAV and our advanced Breakout Tactical Cable, designed for tactical excellence.

We also connected with future talent at JobStart

2024, showcasing career opportunities in IT and engineering.

Additionally, we successfully presented at the Fiber Optic Showcase in Germany, strengthening partnerships and expanding our reach in this key market.

Thank you for your continued support, and stay tuned for more updates! Visit our website for details.



Happy Holidays
&
a Joyful New Year!

Wishing you a successful and prosperous new year filled with new opportunities and achievements!



WWW.OPTOKON.COM

New Year's Message and Outlook for 2025

Dear Colleagues,

As the end of 2024 approaches, I would like to take this opportunity to reflect on what we have accomplished together and share our plans and ambitions for 2025.

This year has been a period of intense work, change, and significant achievements for our company. Thanks to your dedication and collaboration, we have reached many milestones that contributed to the continued growth and strengthening of OPTOKON's position in the global market.

Key Achievements of 2024

Preparation for serial production of ruggedized products: In our Jihlava headquarters, we began preparations to expand production of these devices, meeting the increasing demands of customers, especially in the defense industry.

Expansion of production capacities in Turkey: We are finalizing the study for the installation of advanced CNC machining technology at OPTOKON Elektronik in the Kocaeli free zone. Implementation is scheduled to commence in the second half of December 2024, with project completion expected in the first half of 2025.



Establishment of OPTOKON Egypt representative office:

The registration of our Cairo-based subsidiary is nearing completion, paving the way for developing our activities in North Africa.

Successful submission of an innovation project,

ensuring further production expansion in the coming years.

Launch of two international development projects,

which will enhance our research activities and support the creation of new jobs not only in the Czech Republic but across the entire OPTOKON Group.

Your commitment, professionalism, and teamwork have been instrumental to these achievements.

Outlook for 2025

We are looking forward to new challenges and opportunities in 2025. Our key priorities include:

Gradual expansion of serial production of ruggedized products:

We aim to further develop production at our Jihlava headquarters, strengthening our position in the defense sector.

Development of an OPTOKON accredited laboratory in Turkey:

This project will increase our significance in the Turkish market and enable us to offer additional services to our regional customers.

Return to the U.S. market:

We are finalizing studies to analyze the most suitable location for a joint venture in the United States. Our plan includes opening a service center, a joint venture, and an accredited calibration laboratory, allowing us to regain a strong presence in the North American market.

Activities in Malaysia through OPTOKON Pacific SDN. BHD.:

We are currently building our own facility within the SIRIM complex, which will include a service center, a test bench, and facilities to produce ruggedized and commercial cameras. This initiative underlines our commitment to strengthening our presence and capabilities in the Asia-Pacific region.

These initiatives will bring us closer to realizing our vision: becoming a leading global player in optical technologies, ruggedized devices, and innovative solutions.

Gratitude

During this festive season, I would like to express my heartfelt gratitude to all employees for their tireless work, loyalty, and contributions to our successes. I am proud of what we have accomplished together and confident that we will exceed expectations and advance our company even further in 2025.

I wish you and your families a peaceful and joyful Christmas filled with happiness and unforgettable moments. May the New Year 2025 bring you health, happiness, and success, both personally and professionally.



With respect and best wishes,

Ing. Jiří Štefl
CEO & Chairman of OPTOKON Group

OPTOKON Celebrates St. Nicholas Day 2024

On December 5, 2024, OPTOKON celebrated the beloved Czech tradition of St. Nicholas Day. The event began with a presentation showcasing where OPTOKON products are made and their practical uses, giving employees a deeper connection to the company's global impact.

Our CEO and Chairman Ing. Jiří Štefl addressed the staff, reflecting on the successes of 2024 and highlighting areas for growth. A key moment of the day was the recognition of outstanding employees,

with awards given to those who demonstrated exceptional loyalty and dedication to the company's mission.

Following the awards, employees enjoyed a festive gathering with delicious food and exchanged St. Nicholas gifts, fostering a sense of appreciation and camaraderie. This annual celebration continues to strengthen OPTOKON's community spirit and values, honoring both the company's achievements and its dedicated team.



Join Us at CABLEXX 2025

February 24-25, 2025

Cairo, Egypt – Booth G15

Dear Business Partners, as a **GOLD SPONSOR**, we invite you to explore our latest innovations with OPTOKON at our booth G15. We look forward to connecting with you.

OPTOKON at SAHA EXPO 2024 in Istanbul!

OPTOKON GROUP proudly participated in **Saha-Expo 2024 in Turkey**, unveiling the **BOUNCER-FO drone in collaboration with ADT Aviation and Defence Technologies Inc.** This advanced UAV features fiber optic anti-jamming technology for secure and resilient operations.

We also showcased the **Breakout Tactical Cable**, designed for extreme conditions.

SahaExpo was an excellent opportunity to connect with industry leaders and explore future collaborations. OPTOKON GROUP looks forward to building on these successes and driving innovation forward.



Notable Exhibitions Attended This Year



Land Forces 2024, Melbourne, Australia



OPTOKON Company Presentation

Hosted by MultiMedia Axess

3rd December 2024

from 9:30 to 17:30

**MultiMedia Axess GmbH, Kulmbacher Str. 27A
95460 Bad Berneck, Germany**

Join us for an exclusive event showcasing the latest in fiber optics and telecommunications.

Discover how OPTOKON is advancing technology with our exclusive presentation.

Live product demonstrations

Networking with industry professionals

Presentations on cutting-edge technologies

Secure Your Spot by 15.11.2024

Please confirm your participation informally by e-mail or telephone at:

info@mmaxess.de or **+49 0177 477 277**

Include your name, company, and contact information to secure your spot!

Event Agenda

The presentations and product demonstrations on FTTX and broadband networks include:

OPTOKON Group Introduction

Fiber Optic Testing Equipment

Single-mode / Multi-mode Pigtailed & Patchcords

Military-Grade Products

FOTAS System

Calibration & EMC Services

Catering will be provided.

After the event, we invite you to visit the Christmas market in nearby Bayreuth.

If you are planning to stay overnight, we will be happy to help you book a hotel.

OPTOKON Company Presentation in Germany

On December 3, 2024, OPTOKON GROUP participated in the Fiber Optic Showcase hosted by MultiMedia Axess GmbH in Bad Berneck, Germany. The event marked a key step in strengthening OPTOKON's presence in the German market, providing a platform to demonstrate our latest fiber optic innovations.

Attendees engaged with live product demonstrations, highlighting the quality and reliability of OPTOKON's technology. The showcase fostered valuable discussions on industry trends and collaboration opportunities, bringing together professionals from diverse sectors.

The day concluded with networking at the festive Bayreuth Christmas Market, adding a memorable touch to a successful event. OPTOKON remains committed to building partnerships and expanding its influence in this dynamic market.



Strengthening Global Ties: NRTC Visits OPTOKON

OPTOKON GROUP had the honor of welcoming NRTC (National Radio & Telecommunication Corporation) from Pakistan to our headquarters. This visit marks another milestone in our strong and growing partnership, built on trust, collaboration, and a shared vision for innovation in the telecommunications and technology sectors.

The meeting was an excellent opportunity to deepen our cooperation and exchange ideas that will pave the way for mutual growth. As we discussed

ongoing projects and future endeavors, the visit underscored the importance of partnerships like this in driving global success and fostering innovation.

We sincerely thank NRTC for their visit and the confidence they have placed in OPTOKON GROUP. Together, we look forward to advancing technology, exploring new opportunities, and achieving shared milestones on the global stage.



JobStart 2024: The Future of IT and Engineering

OPTOKON GROUP recently participated in JobStart 2024 at Vysoká škola polytechnická Jihlava (VŠPJ), where we introduced students to the world of fiber optics, telecommunications, and security.

Our goal was to connect with future IT specialists and engineers, offering apprenticeships and

career opportunities. We believe in empowering the next generation by providing exposure to cutting-edge technology and real-world applications.

Thank you to VŠPJ and the students who joined us—we look forward to growing together in this ever-evolving field!



Join us for Modern Day Marine 2025 Exhibition in
WASHINGTON, D.C.

📅 April 29 – May 1, 2025 📍 Walter E. Washington Convention Center

Dear Business Partners, we invite you to explore
our latest innovations with OPTOKON
at our booth #509.

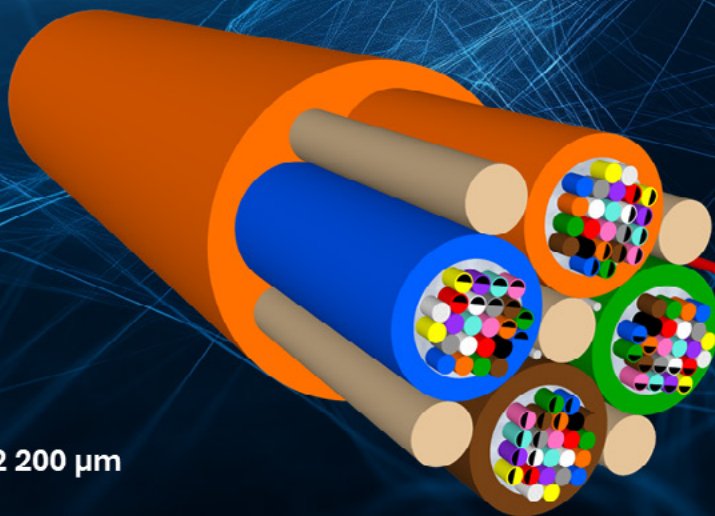


Air-blown Microcable 96F: High-Density Fiber Connectivity

OPTOKON is excited to announce the launch of our Air-blown Microcable 96F, a breakthrough solution for efficient and high-performance fiber optic networks. Designed for streamlined installation and optimal fiber density, this microcable is tailored to meet the demands of modern telecommunications and data infrastructure.



Air-blown Microcable 96F



- 96 fibres G.657.A1 200 μm or G.657.A2 200 μm
- Diameter 4.8 mm
- Minimal duct ID 6.0 mm (Filling ratio 64 %)
- Fibre density 5.3 F / mm^2
- Polyamide (Nylon) jacket

OPTOKON in collaboration with ADT introduce

BOUNCER-FO

Long Range Fiber Optic
Connected FPV UAV
100% Jammer Free

OPTOKON's BOUNCER-FO offers secure, anti-jamming connections with cutting-edge fiber optic technology—up to 10 km range.



The BOUNCER-FO: A New Era of UAV Technology

OPTOKON GROUP, in collaboration with ADT Aviation and Defence Technologies Inc., is proud to unveil the BOUNCER-FO, a groundbreaking UAV designed to set new standards in secure, long-range operations. Combining advanced fiber optic technology with robust anti-jamming capabilities, the BOUNCER-FO offers unparalleled performance tailored for mission-critical applications across diverse environments.

At its core, the BOUNCER-FO integrates exclusive fiber optic communication systems that guarantee a secure, interference-free connection, even in environments prone to jamming threats. This ensures operational continuity over distances of up to 10 kilometers, making it an ideal solution for both commercial and defense missions.

The UAV's innovative design focuses on enhancing safety and reliability by reducing risks associated with signal loss or degradation. These features are critical for achieving mission success in scenarios where precision and dependability are paramount. Additionally, its robust construction enables the

BOUNCER-FO to operate effectively in challenging terrains, delivering unmatched performance and flexibility for strategic deployments.

What sets the BOUNCER-FO apart is its cost-effectiveness, offering a state-of-the-art solution without compromising affordability. Whether deployed for surveillance, reconnaissance, or other critical operations, this UAV is equipped to meet the growing demands of modern missions.

The partnership between OPTOKON GROUP and ADT Aviation and Defence Technologies Inc. reflects a shared commitment to innovation and excellence in aerospace and telecommunications technology. The BOUNCER-FO exemplifies this dedication by addressing the evolving needs of industries worldwide.

Stay connected with OPTOKON GROUP as we continue to push the boundaries of technology, delivering solutions that redefine performance, security, and innovation.



The MOT-200: The Next-Generation Mini OTDR

The MOT-200 from OPTOKON sets a new standard in optical network testing. This compact, handheld OTDR combines cutting-edge technology with a user-friendly interface, making it ideal for professionals in fiber optic network installation and maintenance. With a 4.95-inch capacitive multi-touch screen, the MOT-200 provides clear and precise testing, even in challenging environments.

Built for rugged use, the MOT-200 is designed to ensure reliable performance in tough conditions. It features multiple testing modules, including optical loss test sets and visual fault locators, all integrated into a single device. Its lightweight, field-ready design and long-lasting battery make it a must-have tool for fiber optic technicians.

The MOT-200 offers advanced diagnostics and exceptional portability, making it the ideal solution for anyone needing efficient, reliable fiber optic testing in the field.



OPTOKON Pacific with New CCTV Production Facility



We're thrilled to announce a major milestone for the OPTOKON Group as OPTOKON Pacific opens its state-of-the-art production facility dedicated to the manufacturing of cutting-edge CCTV systems.

This new facility marks a significant step forward in enhancing our global production capabilities. With this expansion, OPTOKON Pacific will play a pivotal role in meeting the growing demand for high-performance, reliable CCTV solutions designed for a wide range of applications, from industrial and security sectors to critical infrastructure.



The facility is equipped with advanced production technologies, ensuring the delivery of CCTV systems that meet the rigorous standards synonymous with the OPTOKON brand. By investing in this facility, we're not only expanding our production capacity but also reinforcing our commitment to providing innovative and secure solutions for our customers worldwide.

This achievement underscores OPTOKON Group's dedication to continuous innovation and its vision for global growth.



DATA CENTER
DCS[®]
CABLE SYSTEM

TAILORED
NETWORKING
FOR
THRIVING
BUSINESSES





Discover the Services at Datové Centrum Vysočina

Datové Centrum Vysočina is designed to meet the diverse needs of businesses, particularly in telecommunications and IT. Here's a closer look at the comprehensive services offered:

Dedicated Servers

High-performance servers tailored to your specific requirements, providing reliability and speed.

Rack Housing

Secure and efficient rack space for your equipment, ensuring optimal conditions.

Cloud Storage Solutions

Scalable cloud services that allow for easy data management and backup, enhancing accessibility and collaboration.

Virtual Servers

Flexible virtual server solutions that maximize resource utilization and cost-efficiency.

High Availability

Guaranteed uptime with advanced infrastructure to minimize downtime and ensure continuous operations.

Advanced Security Measures

State-of-the-art security protocols protect your data from cyber threats and unauthorized access.

Backup and Disaster Recovery

Robust backup solutions and disaster recovery options to safeguard your data and ensure business continuity.

24/7 Expert Support

Our dedicated team is available around the clock to assist with any issues or queries, ensuring peace of mind.

Datové Centrum Vysočina is committed to delivering exceptional IT solutions, helping businesses grow while maintaining a secure and efficient operational environment.

Built for the Harshest Environments

OPTOKON Kable OPK-U-BRFTAC-4(4X2,0)



Rugged



Reliable



Ready



Introducing our New Breakout Tactical Cable

The Breakout Tactical Cable OPK-U-BRFTAC-4(4x2.0)N9AHAU is engineered to meet the rigorous demands of military and industrial environments. Designed for temporary deployment in harsh conditions, this cable offers unmatched resilience in critical communication operations.

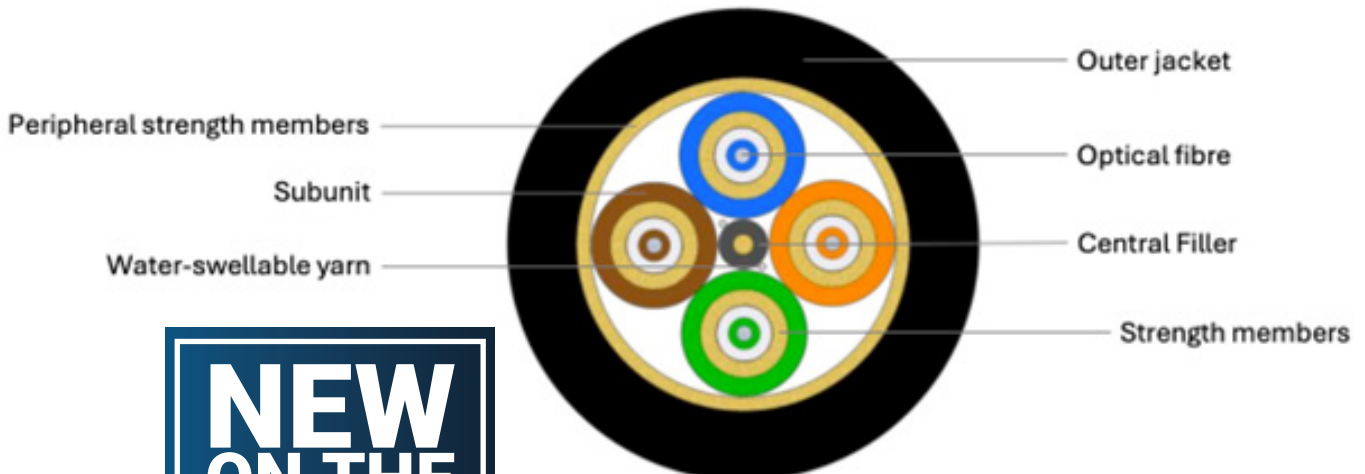
Key Features:

- **Military-Grade Communication:** Ensures dependable data transmission even in the toughest field conditions.
- **Wide Temperature Range:** Operates between -55°C and +85°C, ensuring connectivity in extreme climates.
- **Flexible and Durable:** With increased flexibility

and breakout construction, it allows for easy handling and installation.

- **Superior Resistance:** Resistant to abrasion, cutting, and impact damage, making it ideal for high-risk environments.
- **Temporary and Industrial Deployments:** Perfect for use in temporary setups, industrial applications, and tactical operations.

This cable has undergone stringent testing for tensile strength, crush resistance, and water tightness to ensure peak performance. With its robust design, the OPK-U-BRFTAC-4(4x2.0)N9AHAU is the go-to choice for reliable data communication in unpredictable conditions.



**NEW
ON THE
MARKET!**



OPTOKON LMRG-8: Advanced Radiation Detection for Critical Applications

The OPTOKON LMRG-8 rugged radiation detector is an advanced tool designed to detect and measure gamma and beta radiation intensity. It excels in its ability to quickly and accurately identify isotopes, making it an invaluable instrument in various fields where a rapid response to radiation threats is essential. Its robust design and cutting-edge technology ensure reliable performance even in the most demanding conditions.



Applications of OPTOKON LMRG-8

1. **Military:** Protection of crews, radiation monitoring during operations.
2. **Police/Rescue Services:** Radiation detection in crisis response, protection of teams.
3. **Vehicles:** Radiation monitoring while in motion in armored vehicles.
4. **Drones/UAVs:** Aerial radiation monitoring in hard-to-reach areas.
5. **Industry:** Radiation control in nuclear power plants and industrial facilities.
6. **Civil Protection:** Deployment during disasters, monitoring public spaces.
7. **Scientific Research:** Examination of radiation-contaminated areas, scientific studies.



Power Meter PM-800N & Light Source LS-800N

OPTOKON introduces the PM-800N Power Meter and the LS-800N Light Source, two essential tools for precise fiber line diagnostics. Designed for efficiency and accuracy, these compact devices simplify optical network testing and ensure reliable performance in various scenarios.

The PM-800N measures absolute and relative optical power, featuring auto-wavelength detection, USB probe mode, and a cycle mode for streamlined operations. Its adaptable input design allows easy connector changes, making it versatile for different network requirements.

The LS-800N Light Source offers up to four wavelengths and seamless operation with the PM-800N through automatic wavelength detection. With a cycle mode and changeable adaptors, it guarantees flexibility and ease of use for fiber line diagnostics.

Together, the PM-800N and LS-800N provide a comprehensive solution for maintaining and troubleshooting optical networks, ensuring accuracy, reliability, and user-friendly operation.



PM-215E Pocket optical power meter/USB probe

The PM 215E optical power meter is a small, pocket size low cost item. The small size does not prevent the optical meter fulfilling all technical requirements for field equipment. The tester can be used as pocket power meter or as an USB probe, part of testing workstation. It can be placed within rack mount ODFs with the display on the top or on the side. The Li-Pol rechargeable battery ensures long term working time with a minimum life time of 2 years. The unit is able to store 100 measurements which can be uploaded to PC and managed with SmartProtocol software or Data Exporter.

- Portable power meter or USB probe
- New faster hardware
- Option for Bluetooth or WIFI module
- Supports SM and MM fiber testing
- More than 20 working wavelengths
- Absolute and Relative power measurement
- Internal memory for up to 100 measurements
- Comes with its own application for setting, data transfer
- USB-C port for control, charging, and data transfer



**NEW
DESIGN!**

LS-215E

The LS-215E optical light source is a small size low cost item which fulfils all necessary technical field equipment requirements. Available in working wavelengths 850/1300 for multimode or 1310/1550 nm for single mode applications or a visible 650 nm laser source. Batteries can be charged via a USB port or external AC/DC adaptor.

The versatile output port facilitates the simple integration of commonly used optical adapters (FC, SC, or ST) in telecommunications, data, and industrial networks. This output port is specifically designed for the connection of connectors with a PC polished finish.

- Dual wavelength output
- Multimode and Single mode version
- Smallest size, light weight
- Changeable output adapters
- USB port: Battery charging
- Powered by Li-Pol type battery
- Battery status indicator
- 10 min Auto Off

**NEW
ON THE
MARKET!**

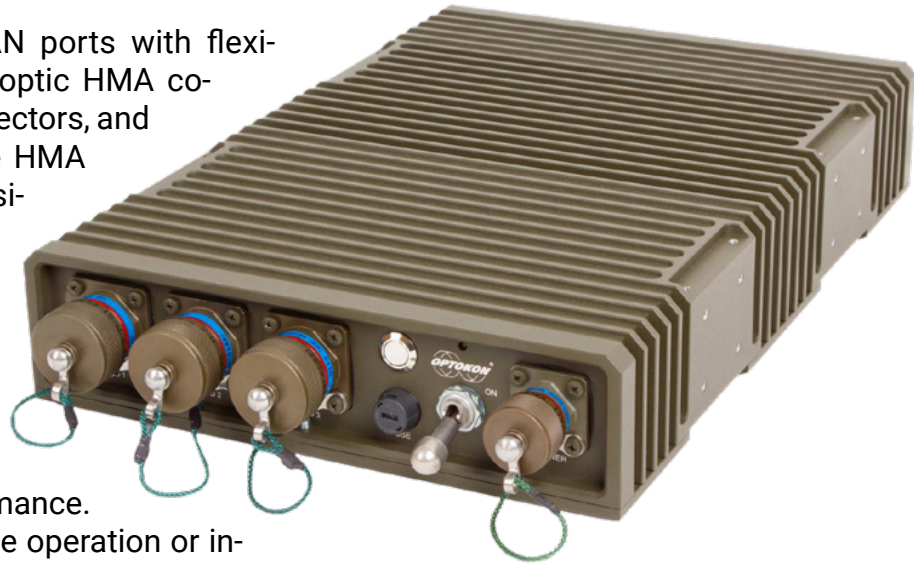


LMSW-82T: Ruggedized Ethernet Switch

The OPTOKON LMSW-82T is a cutting-edge Layer 2/3 managed PoE switch engineered for mobile and embedded networks operating in the harshest conditions. With a robust and compact design, it delivers reliable and secure data, voice, and video communications, making it a go-to solution for tactical and industrial applications.

This rugged switch features 2x 1G WAN ports with flexible connectivity options, including fiber optic HMA connectors or multipin copper D38999 connectors, and 8x LAN ports with full PoE support. The HMA “Expanded Beam” technology ensures resilient signal transmission even in challenging field conditions.

With a wide operating temperature range of -40°C to +70°C and compatibility with 24 V DC power systems, the LMSW-82T is designed to handle extreme environments while maintaining peak performance. Its versatile form factor allows standalone operation or integration into 19” racks, with side-by-side mounting options for scalability.



Supporting advanced management protocols such as Web UI, SNMP, DHCP server, and SPAN session, the LMSW-82T combines flexibility and power, meeting modern networking standards like IEEE 802.3at/af PoE.

KIM1: Secure Communication Network for Command Operations

The KIM1 system is an advanced communication network designed for command locations, providing robust solutions for data processing, storage, and transmission. It enables seamless interconnection of designated transmission assets, supports communication between voice and video sources, and ensures commanding officers have access to critical data. The system is divided into classified („RED“) and unclassified („BLACK“) parts, separated by a secure one-way „Diode“ for controlled data transmission.

The system operates using licensed software, including Windows Server 2022R2, Exchange 2013, VMware, and McAfee solutions, ensuring reliable and efficient performance. Palo Alto security solutions are directly integrated into the production environment on both the RED and BLACK sides to safeguard the network infrastructure. Designed

to handle large volumes of data and meet diverse operational requirements, KIM1 is a vital resource for secure and efficient command communication.



