



NEWSLETTER

— APRIL 2024 —

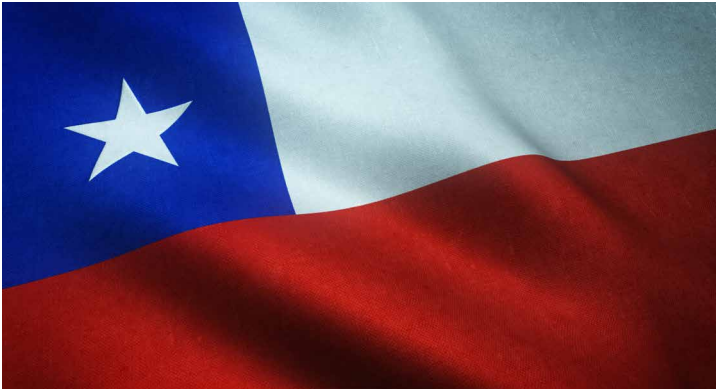
OPTOKON Newsletter April 2024

Welcome to the latest edition of our newsletter! This issue highlights our latest achievements and partnerships, our expansion to the South American market and more. We also have been recognized in recent fiber optic market reports, reaffirming our industry leadership. Additionally, we've participated in four major exhibitions in 2024 so far, showcasing our latest innovations and strengthening our industry presence.

As always, more information can be found on the OPTOKON website.

Santiago de Chile, the best place for OPTOKON in South America

After a 10-year absence, OPTOKON is making a comeback to the South American market, with Chile as its focus. This resurgence follows our historic delivery 16 years ago of an optical link between telescopes for the ESA Observatory at Paranal, where the first Czech astronomer Stanislav Štefl worked at the time. His pioneering research in stellar spectroscopy significantly advanced our understanding of celestial bodies.



Acknowledged in Fiber Optic Market Reports

OPTOKON has been mentioned in two significant market reports: one on Fiber Optic Cross Connectors and another on FRP Fiber Optic Cables. These reports provide valuable insights into the global market landscape, including market status, competition, growth trends, and more.

Being recognized in these reports underscores OPTOKON's prominence and influence within the fiber optic industry. We are proud to be mentioned alongside other reputable manufacturers, showcasing our commitment to innovation and excellence.

As we move forward, OPTOKON remains dedicated to pushing the boundaries of fiber optic technology and providing cutting-edge solutions to our customers. We are excited about the future opportunities that lie ahead and are committed to delivering value and innovation every step of the way.

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We Attended 4 Exhibitions in 2024

At OPTOKON, our commitment to excellence drives us to participate in exhibitions worldwide, where we have had the privilege of showcasing our solutions to esteemed industry peers. We are pleased to share that we've recently attended four notable exhibitions, each providing valuable opportunities for collaboration and knowledge exchange.

Our journey commenced at the World Defense Show (WDS) in Riyadh, where we engaged with leaders in defense technology, demonstrating our specialized optical communication systems. Following this, we participated in Cablexx in Cairo as a Gold Sponsor, contributing to discussions on advancing telecommunications infrastructure through fiber optic solutions.

In Riyadh once again, at the LEAP Exhibition, we reaffirmed our dedication to providing reliable, high-performance networking solutions to industries. Lastly, at FIDAE in Santiago, we were honored to interact with a global audience, showcasing OPTOKON's expertise in optical technology. We also welcomed a visit from the Czech ambassador, reinforcing our international connections.



Forthcoming Exhibitions

DSA, Kuala Lumpur - 6-9th May 2024
stand 8330A in HALL 8

Technical Summit, - 19-20th June 2024
OPTOKON HQ

ECOC, Frankfurt - 22-26th September 2024
stand C2 HALL 5.1



WDS, Riyadh, Saud Arabia



Cablexx 2024, Cairo, Egypt



LEAP, Riyadh, Saudi Arabia



FIDAE, Santiago, Chile

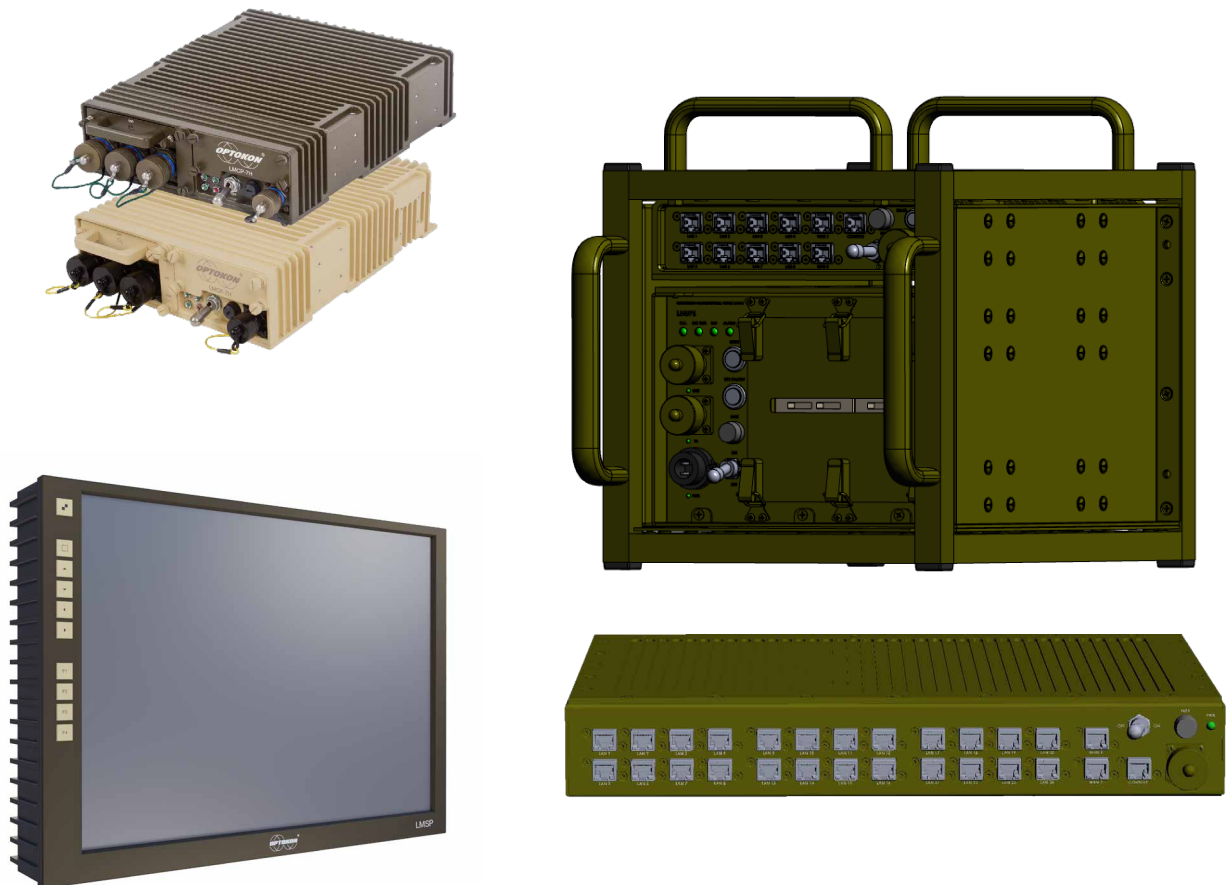
Continuous Development and Innovation

Since its founding decades ago, OPTOKON has aimed to be a pioneer in the field of optical communications. A commitment to continuous innovation and development is the foundation of our success and motivates us to reach new heights.

In our company, continuous development is an integral part of our daily work. In this way, we respond to dynamic market needs and deliver innovative solutions that truly bring value to our customers. A key element of our success is our ability to monitor and to anticipate trends in optical communications, which is why we continually invest in research and development. We work with leading experts and institutions to gather the latest knowledge and use it to create innovative products.

But our development doesn't end with the launch of a new product. We are committed to continuously improving our existing products and services based on feedback from our customers. We actively seek ways to better tailor our products to their needs and expectations. Sustainability is another important aspect of our continuous development. We strive to minimize negative environmental impacts at every step of new product development by introducing environmentally friendly materials and manufacturing processes.

In addition to the above-mentioned measures aimed at continuous development and innovation, we have decided to take a further step to strengthen our ability to develop and manufacture independently, which includes investing in a 3D printer dedicated to printing metallic materials, which will allow us to gain greater control over our production processes and reduce our dependence on external suppliers. This move will make us more flexible and responsive to market needs and our own innovative requirements. By investing in this metal 3D printing technology, we will gain the ability to develop and manufacture new products more quickly and improve existing manufacturing processes.





TECHNOLOGICAL INNOVATION LABORATORY

In the dynamic environment of modern communications, reliable and secure communications are critical not only for the success of tactical operations, but also for a wide range of civilian applications. Ensuring the functionality and reliability of communications equipment is essential to its successful deployment in a variety of industries, which is why OPTOKON has built a new state-of-the-art test lab for testing electronic communications equipment.

Safety is a key priority for us, which is why the OPTOKON, a.s. premises, including the testing laboratory, are equipped with the most modern safety features. In addition, the entire perimeter of the OPTOKON premises is protected by our own modern FOTAS technology, which uses optical fibre as an acoustic sensor that detects sounds in the vicinity of the optical cable. This system can warn of unauthorized access to the perimeter and one of its main advantages is that it does not need any infrastructure in the perimeter, only the fibre optic cable installed on the fence or buried in the ground. In addition, the laboratory is equipped with a complete backup power supply provided by UPS and diesel generators, which ensure independence and reliability of operation even in the event of a power failure. OPTOKON's newly built test laboratory is strategically located directly on the motorway between Prague and Brno and is thus easily accessible from all over the country.



In addition to testing and simulating various electronic device wiring applications, OPTOKON offers accredited services from its test facility that specializes in electromagnetic compatibility (EMC) testing, which is essential to ensure that electronic devices do not interfere with the operation of other devices or systems. Our laboratory is equipped with a state-of-the-art Lindgren semi-anechoic chamber, which provides an excellent environment for accurate measurements. We are capable of performing electromagnetic interference (EMI) tests in the frequency range of 9.5 kHz to 18GHz in accordance with the military standard MIL-STD 461 for electronic equipment and EN 55032 for consumer electronics. To ensure accurate measurements, we use Schwarzbeck antennas and a Rohde&Schwarz ESR 26 receiver (up to 26.5 GHz). The OPTOKON test facility offers EMI testing (CE102 and RE102) and EMS testing - CS101 (susceptibility to conducted emissions, injection into cable harness, pulsed excitation), CS116 (susceptibility to conducted emissions, damped sinusoid, cables and power conductors) and RS103 (susceptibility to radiated emissions,

electric field). In our second laboratory, we specialize in testing mechanical and climatic properties, especially of fibre optic cables and similar components. The professional equipment of our laboratory can also be used for testing other electronic equipment according to MIL and COS standards. This laboratory is accredited and certified to ISO 17025 and mechanical and climatic tests have been accredited in accordance with EN 60794-1-21 and EN 60794-1-22.



Supporting a modern data centre is also an integral part of the testing laboratory. The DATA CENTRE VYSOČINA manages the secure storage of all data and output from the OPTOKON test centre and offers customers many other interesting benefits and possibilities. All information, outputs and sensitive data from the OPTOKON test centre are systematically stored in the data centre. Thanks to modern technology and the highest security standards, the data is protected against loss, damage or unauthorized access. Customers can rest assured that their information is safe and ready for immediate recovery if needed. The data centre allows customers to securely access their data from anywhere, anytime. With encrypted connections and authentication mechanisms, users can easily manage their data, perform analysis and share information with colleagues. In addition, the data centre offers other services such as performance monitoring, cloud backup, and even computing power for demanding tasks. All of this contributes to the efficient use of data and increases customer productivity.

OPTOKON offers expertise and reliability in testing electronic and communication equipment and thanks to our modern equipment and experienced specialists we are able to meet even the most demanding customer requirements. Whether you are developing tactical electronic equipment or consumer electronics, OPTOKON has the knowledge and capabilities to verify that your equipment meets the highest standards and can help you succeed in today's competitive environment.

Zdeněk Malý, IT & Marketing Manager, OPTOKON, a.s.
George Štefl, OPTOKON Group Manager

Modern and efficient information and support management

QR codes are an innovative and efficient way of marking products and sharing information with users. Their fast and easy readability, large data capacity and wide range of uses make them an increasingly popular tool in the modern world.

Each OPTOKON product has a unique QR code and, once scanned, connects the user to a wide range of digital services. The link from the QR code provides access to an online version of the product documentation, including manuals, user guides, technical specifications and safety instructions. Users will find possible video tutorials, tutorials and FAQs to help them install, configure and use the product. The QR code will also allow easy contact with our customer service centre. This allows users to quickly and conveniently get help with technical troubleshooting and questions answered.

Some product-specific information is secured and only available to certain users. All data is stored securely in the „DATA CENTRE VYSOČINA“.

To unify and streamline customer support, we are introducing a single helpdesk. Users will thus receive comprehensive assistance with everything related to our products and services in one place.

In line with trends in the modern world, we are actively working on implementing artificial intelligence (AI) technologies into our ecosystem. AI will play a key role in automating customer support, personalizing products and services, and optimizing processes.

We believe that QR codes and linking products to digital services are the future of user-product interaction. With innovative technologies and continuous development, we strive to provide our customers with the best user experience and maximum support.

Zdeněk Malý, IT & Marketing Manager, OPTOKON, a.s.



OPTOKON Elektronik State-of-the-Art Intercom System

OPTOKON Elektronik intercom system is tailored specifically for military ground vehicles. The system sets the standard for reliable and secure voice communication in operational environments, ensuring seamless coordination among onboard personnel and external units. At the heart of OPTOKON Elektronik Intercom system lies a robust electronic infrastructure built to military standards. Designed to withstand the rigors of combat situations, OPTOKON Elektronik system provides a lifeline of communication for military personnel operating in ground vehicles. Whether navigating through hostile territories or executing strategic manoeuvres, OPTOKON Elektronik Intercom system ensures clear and uninterrupted communication under the most demanding conditions.

One of the key features of OPTOKON Elektronik Intercom system is its ability to facilitate communication within the vehicle through wired connections using microphone-equipped wearable headsets. This allows for efficient and discreet communication among crew members, enhancing situational awareness and coordination. Additionally, OPTOKON system enables seamless communication with external units via two vehicle radios, extending the reach of communication beyond the confines of the vehicle.



OPTOKON Elektronik Intercom system is meticulously engineered to meet the stringent requirements of military standards, including MIL-STD-461, MIL-STD-1275, and MIL-STD-810F. These standards ensure that OPTOKON Elektronik system is equipped with robust electrical protections, including reverse polarity protection, high voltage protection, and static load protection. By adhering to these standards, we guarantee the reliability and durability of OPTOKON Elektronik Intercom system in the most challenging operational environments.

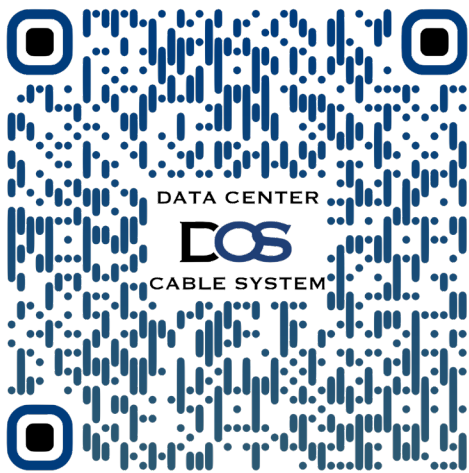
In addition to meeting military standards, OPTOKON Elektronik Intercom system offers a range of advanced functionalities to meet the diverse needs of military operations. These include:

- **Digital Voice Communication:** OPTOKON Elektronik system enables seamless voice communication with digital clarity, ensuring effective communication even in noisy environments.
- **Full-Duplex Communication:** The ability to converse with all users simultaneously enhances operational efficiency and situational awareness.
- **Expandable Capacity:** With support for up to 12 independent units, OPTOKON Elektronik system accommodates the communication needs of diverse military operations.
- **Noise-Cancelling Technology:** OPTOKON Elektronik Intercom system features noise-cancelling microphones, reducing ambient noise to ensure clear communication during critical missions.
- **Compatibility with Military Gear:** OPTOKON Elektronik system is designed to integrate seamlessly with military gear, including steel helmets, vests, and CBRN masks, ensuring compatibility with standard-issue equipment.

Furthermore, OPTOKON Elektronik Intercom system incorporates cutting-edge Bone Conduction Communication technology, revolutionizing communication in noisy environments such as inside vehicles. Unlike conventional headphones, OPTOKON Elektronik system utilizes bone conduction to transmit sounds, providing clear and reliable communication even in the midst of conflicts.

In conclusion, OPTOKON Elektronik Intercom system is more than just a communication tool—it is a lifeline for military personnel operating in ground vehicles. With its robust design, advanced features, and compliance with military standards, OPTOKON Elektronik Intercom system is poised to enhance the effectiveness and safety of military operations.

Mr. Bulent Töksoz, Director of Development Strategy of OPTOKON GROUP



**SCAN QR
TO VISIT OUR
WEBSITE**

DOS® Data Center Cable

Due to the ever-increasing volume of data in global networks, Data Centers are becoming increasingly important, and their construction continues at a steady, faster pace. This places everincreasing demands on the optical infrastructure. Optical cabling must be used to reliably interconnect data center devices, such as servers, switch data stores. It must also ensure the interconnection of individual data center nodes, connection to the global data network and connection of customers and users of data center services. All this while ensuring maximum economy during installation and operation of the data center. These requirements are met by the modular concept of the **OPTOKON DOS** cabling system. The system is based on factory prepared modules, preterminated cables, which significantly reduce the volume of installation work during construction and facilitate the fault clearance during operation. The DOS - SN-MT16 cabling system is based on multi-fiber connector technology. The newly developed multi-fiber connectors SN-MT16 are designed to terminate 16 fiber cables. The use of trunk cables with these connectors eliminates the need for splicing in optical cabinets, speeds up installation and ensures system modularity. Basically, the design of a cable with 96 fibers was chosen, 16 fibers are stored in 6 tubes.

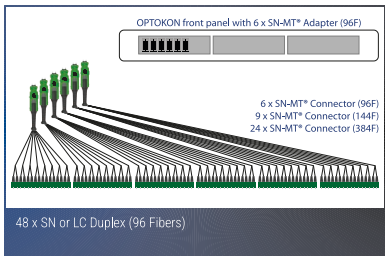
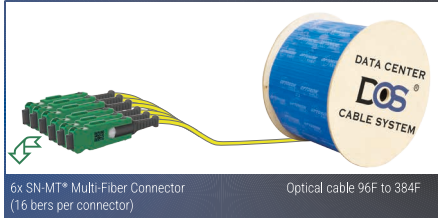
**DATA CENTER
CABLE SYSTEM**

MADE IN EUROPE

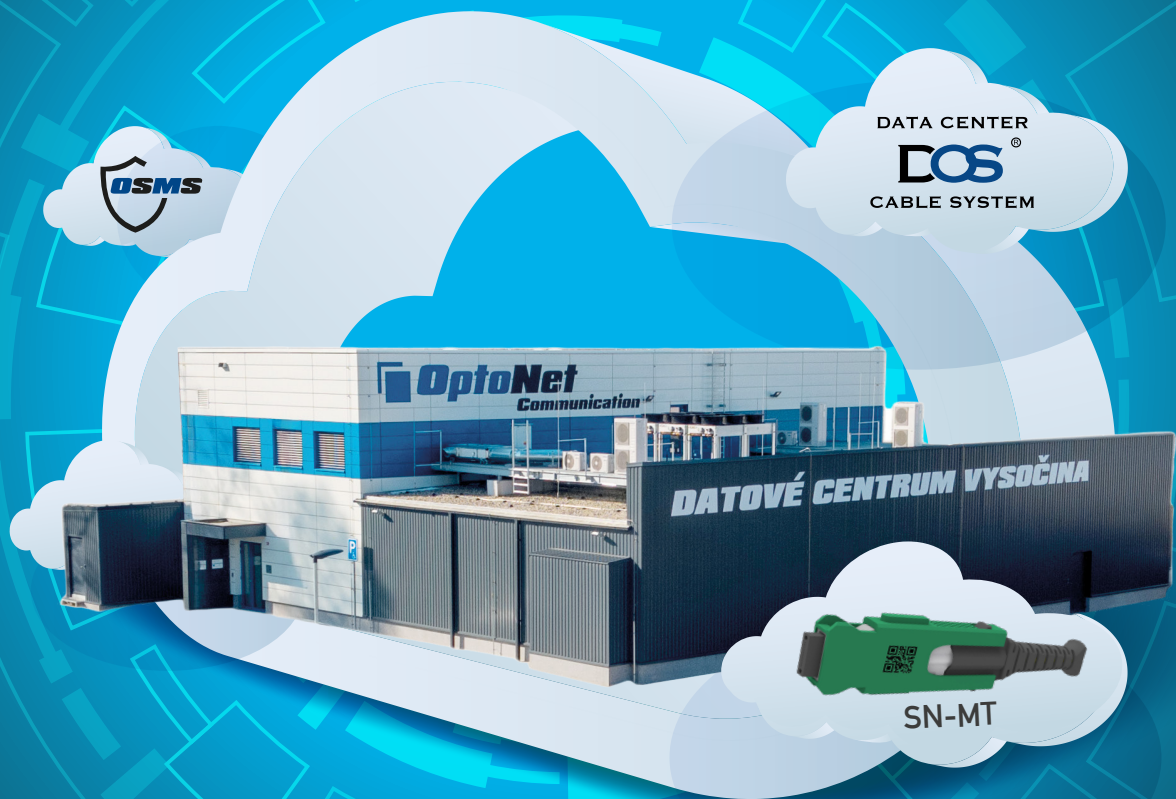
TECHNOLOGY FOR
FUTURE DATA CENTRE STRUCTURED CABLING SYSTEM

Next Generation Multi-Fiber **SN-MT® CONNECTOR**

LIFETIME WARRANTY



FIRST EUROPEAN DATA CENTER WITH NEW CABLING SYSTEM DOS USING SENKO SN[®] - MT CONNECTOR



THE MOST SECURE DATA CENTER IN THE CZECH REPUBLIC



Strengthening Cyber Security

Companies' increasing dependency on digital technologies brings with it growing risks of cyber-attacks. The Directive of the European Parliament and of the Council on measures to ensure a high common level of cybersecurity in the Union, known as NIS 2, represents a key step towards a unified approach to cyber security across the European Union. This Directive has been published on 14 th of December 2022 and will enter into force on 17 th of October 2024. NIS 2 emphasises the importance of prevention and the combination of hard and soft measures to achieve effective protection against cyber threats. It focuses on employee awareness and tailoring measures to the specific situation of the organisation. It also emphasises the role of CSIRTs and CERTs, risk management, business continuity and supply chain security.

In our training centre we have been actively involved in spreading awareness of the NIS 2 Directive and practical measures in the field of cyber security. Our training focused on the importance of prevention, the combination of different measures to protect against cyber threats and implementing the basic principles of cyber hygiene into company processes. We firmly believe that educating employees and integrating security principles into the company culture are key factors in raising the level of cybersecurity in an organization.

An important element is the promotion of cyber hygiene, which focuses on basic measures such as Regular data backups, keeping software and hardware up-to-date, and controlling employee access, adhering to password policies, using encryption and security software, and protecting emails, regular staff training and responding to current situations. Implementing cyber hygiene into company processes and employee training are key elements that help integrate security principles into the corporate culture and increase the level of cybersecurity in the organisation. The NIS 2 guidelines and practical cybersecurity measures provide the foundation for cornerstones in combating cyber threats and protecting information infrastructure in today's digitised society. Their compliance and implementation are key factors in ensuring security and stability of organisations in the digital environment.



LMSP

the Lightweight Portable and Intelligent Rugged MIL-STD-461E Computer, also known as the LMSP. This cutting-edge system is designed with a robust display, tailored specifically for diverse military environments such as naval ships and infantry applications. With seamless integration onto various platforms, the LMSP boasts specifications that cater to the unique needs of each branch of the armed forces.

Versatility is key with the LMSP, as it can be easily mounted, enabling portable operations in any scenario. Equipped with a daylong battery, the tablet meets the demands of multiple mission profiles in different Military vehicle platforms or NAVY applications. Its ability to run on Windows and Linux platforms offers flexibility, ensuring compatibility with a range of military software controls and providing a long service life.

Designed for use in embedded machine vision battery-powered appliances, the LMSP tablet computer delivers all-day battery life, making it an indispensable tool for military operations.



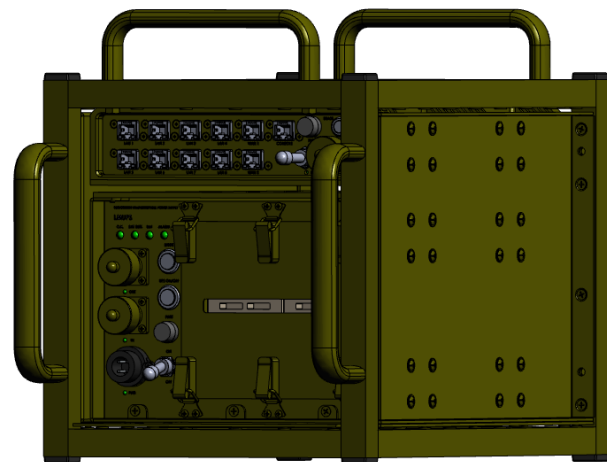
LMDS Light Mobile Data Switch

The LMDS is a lightweight mobile data switch in a portable frame powered by a built-in UPS. Both devices meet the required IP rating. It can be powered from AC 230 V or DC 24 V mains. For batteries it is possible to monitor their status - transparent window on the cover.

The switch based on the proven Cisco ESS 3300 technology in a ruggedized design meets all requirements for the establishment and operation of mobile data networks.

A 10 Ah battery type BB-2590U serves as a backup power supply. This assembly ensures compatibility on the contemporary battlefield and the unification of charging sources used, for example, in L3Harris FALCON II radios, III and FALCON IV.

- Ruggedized design for setting up mobile networks
- Proven Cisco ESS 3300 technology
- 2x WAN 1/10G
- 8x LAN 10/100/1000Base-T(X) with PoE
- MRJ-resistant connectors
- Reliable, widely used batteries - 2 pcs
- Battery status indication
- Easy battery replacement during operation
- External Power Supply:
 - 230 V AC from AC generator
 - 24 V DC from the vehicle's on-board power supply

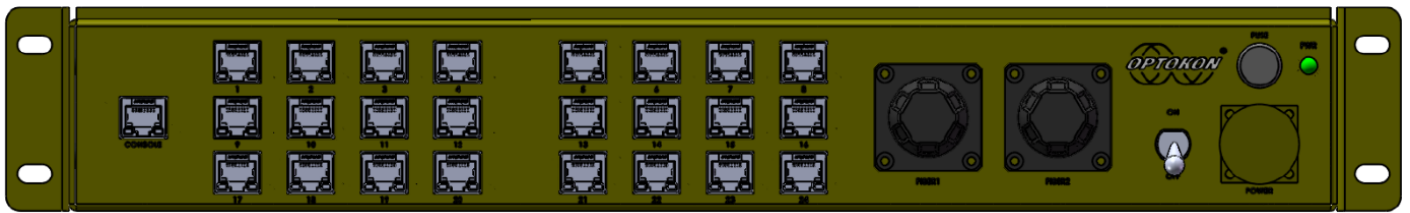


LMSW-E33-242M series

**RUGGEDIZED 1/10 GIGABIT
ETHERNET LAYER 2/3 MANAGED POE
SWITCH
2X 1/10G WAN, FO HMA
24X LAN 10/100/1000BASE-T, POE**

OPTOKON's R&D
SOLUTION TECHNOLOGY INTEGRATOR OF
CISCO SYSTEMS

The OPTOKON® LMSW-E33 ruggedized switch based on Cisco® IE industry technology extends switching capabilities to mobile and embedded networks that operate in extreme environments. The flexible, compact form factor of the switch, powered by Cisco IOS® Software, provides highly secure data, voice, and video communications to stationary and mobile network nodes, making it ideal for use in harsh environmental conditions. 10G fiber optic ports are terminated with HMA "Expanded Beam" connectors, which allows interconnection of the nodes of tactical network by the help of cables with optical fibers. The used "Expanded Beam" technology preserves all advantages of signals transmission through the optical lines in field harsh environmental conditions. The switch supports a variety of management functions, including Web UI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session. The switch is able to fit all the common 24 V DC power systems. The switch operates in wide operating temperature range -40 to +70°C. The switch can operate as standalone device or in addition the 19" brackets allow switch installation into 19" rack.



LIS-V Industrial server

The LIS-V is powerful server set with Intel® Xeon® Processor CPU and high performance NVIDIA® card designed as management and processor unit for industrial application. The LIS-V computing and processing power is designed especially for modern AI applications, integrates maximum compute and networking throughput and enables deep learning and artificial intelligence capability through the use of neural networks. LIS-V management and processor unit has a dedicated Intelligent Platform Management Interface (IPMI) port to allow remote management of the server. The LIS-V server system is available in various configuration, see Table Version.

Each Version includes two units:

- a) LIS-X – 1U main server unit
- b) LIS-EB – 1U supplementary unit



Rear panel view

LMSW-82T

The OPTOKON® LMSW-82T ruggedized switch extends switching capabilities to mobile and embedded networks that operate in extreme environments. The flexible, compact form factor of the switch, provides highly secure data, voice, and video communications to stationary and mobile network nodes, making it ideal for use in harsh environmental conditions. 1G fiber optic ports are terminated with HMA “Expanded Beam” connectors, which allows interconnection of the nodes of tactical network by the help of cables with optical fibers. The used “Expanded Beam” technology preserves all advantages of signals transmission through the optical lines in field harsh environmental conditions.

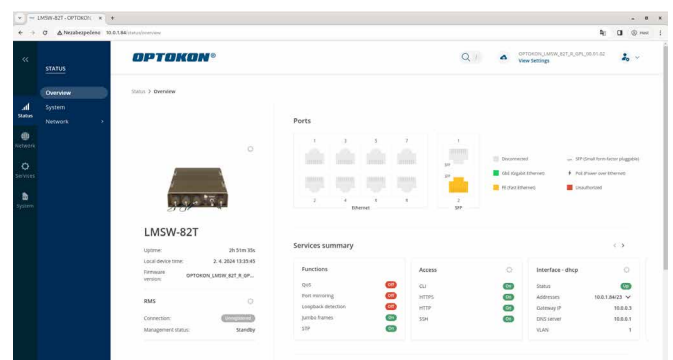
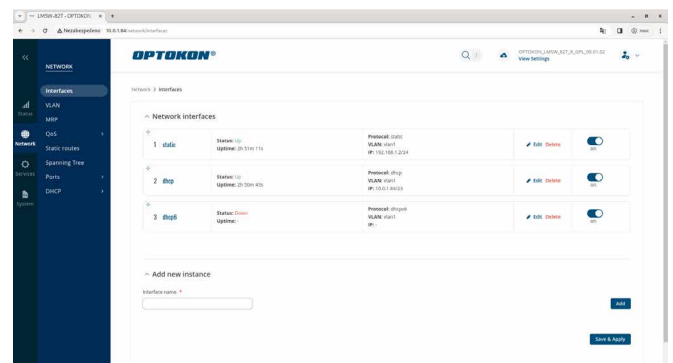
The switch supports a variety of management functions, including Web UI, MIB, SmartPort, SNMP, syslog, DHCP server, SPAN session. The switch is able to fit all the common 24 V DC power systems. The switch operates in wide operating temperature range -40 to +70°C. The switch can operate as standalone device or in addition the 19” brackets allow switch installation into 19” rack. Two switches can be connected on the side and mounted in a 19” rack.

The switch not only extends switching capabilities to mobile and embedded networks in extreme environments but also incorporates L2/L3 functionality, surpassing the standard L2 capabilities. Additionally, the switch features our proprietary software, showcased in the screenshots below, enhancing its performance and management capabilities for seamless data, voice, and video communications in harsh environmental conditions.

- Robust compact design resistant to harsh environmental conditions and rough handling
- L2/L3 functionality
- 2x WAN FO in HMA-J connector or UTP
- 8x LAN with PoE, D38999 multi-pin connectors
- Standards IEEE 802.1p, IEEE 802.1Q, 802.3az, 802.3af and 802.3at
- 1G uplinks, 1G downlinks
- WAN – 2 ports of 1G, copper or fiber (HMA)
- LAN – 8x 10Base-T/100Base-TX/1000Base-T
- PoE on all LAN ports available
- 20 – 40 V DC power supply



**NEW
ON THE
MARKET!**



THE NEW OFT-4212-MCMU

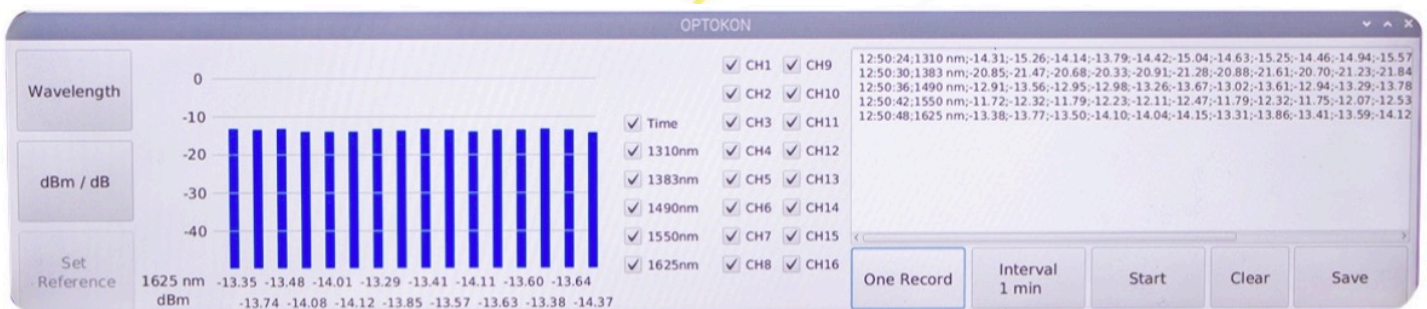
Higher data rates now require eight lanes (16 fibers) to economically provide connectivity. We see 400G, 800G and 1.6TBASE-SR8 and -DR8 formats in QSFP-DD and OSFP transceivers. These 16-fiber applications cannot be supported by traditional 12-fiber connectors but by new very small 16-fiber connectors such as SN-MT connectors. OPTOKON is coming on the market with two tester variants - with a new OFT-4212-MCMU laboratory tester and an OFT-4212-MCMU manual tester.

New multi-fiber testers can measure output power from any filament on a Base-12 or Base-16 connector (8f, 12f, 24f, 16f, etc.). Of course, they can also measure simplex and duplex connections. OPTOKON optical power meters of the OFT series enable testing of LC, MDC, SN and MPO connectivity with unrivaled flexibility and test accuracy. In addition, our laboratory SM testing devices of the OFT series enable simultaneous IL testing at 2 MM wavelengths and 5 SM wavelengths (850nm, 1300 nm, 1310 nm, 1383 nm, 1490 nm, 1550 nm and 1625 nm) and at the same time measurement RL on wavelength 1310 nm and 1550nm for each channel.

The new OPTOKON test instruments are intended for use on all network configurations, from the most basic to emerging systems where standards are still being proposed. Laboratory tester OFT-4212-MCMU can be also connected with QR reader.

OPTOKON is coming to the market with another series of accurate hand-held testers that will ensure field testing not only for Base-12, but also for Base-16 connectivity.

Repeatable and accurate measurement of the most common connection systems is also guaranteed by the calibration of the testers in the accredited OPTOKON calibration laboratory.



OFT-4212R

FIBER OPTIC 4 CHANNELS OPTICAL TEST STATION

- Insertion loss at 1310, 1490, 1550 and 1625 nm
- Return loss 1310 and 1550 nm
- Full Automation with Graphical Guidance



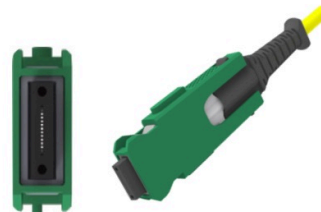
OFT4212R is a connector assembly test station, equipped with set of Light sources, Optical Return Loss module, four channel power meter and control unit with touch display. This solution provides full automated test of connector with graphical guidance. Serial numbers of tested connectors can be entered manually or by QR code reader. Measured values are checked if they are within expected range, then displayed in GREEN or RED colour as a warning. If there is a warning, the measurement can be easily repeated. All measured data are automatically stored on local SSD.

Multifiber testers PM-240 & LS-240

- **MTP/MPO/SN-MT INPUT INTERFACE**
- From 8, 12, 16, 24 fibers, both SM or MM
- Separate photodetector for all fibers
- Optical power level displayed at the same time for each fiber:
 - Graphical display
 - Numerical description
- Recognize dark and active fibers
- Bluetooth connection - optional

The PM-240-MTP optical power meter is designed to measure absolute or relative optical power in optical networks terminated with 12/241 multifiber MTP/MPO connectors, in both SM and MM fibers. The tester can measure simultaneously optical power level in all up to 12 fibers of MTP/MPO connectors, it can recognize "live" and "dark" fibers. It eliminates the need of fan-out from multi to single fiber connectors. Together with LS-240-MTP light source can measure Insertion loss in all 12 fibers at same time, in addition it is able to check the polarity status of fibers interconnection between both MTP connectors. The input port ensures interconnection between measured MTP/MPO connector and 12/24 photodetectors. Due to physical contact between connectors the cleanness of both is required, preferably the visual check before measurement is suitable.

The internal memory allows measurement storage and uploading of more than 500x 12-fibers cables including cable and fiber number, wavelength, absolute value or insertion loss. The Data Exporter software allows the user to export stored data to Excel sheet, or other applications. The rechargeable Li-Pol battery ensures long term operation with a minimum service life of 2 years. Batteries can be charged via a USB port.



New SN-MT
Multifiber connector



MTP
Up to 24 Fibers

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 ODF's 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!**



UTP DATA CABLES

Twisted pair data cables are a fundamental component of networking and telecommunications infrastructure, comprising pairs of insulated copper wires twisted together. This design helps mitigate electromagnetic interference and crosstalk, ensuring reliable data transmission. Available in various categories like Cat 5e, Cat 6, and Cat 7, these cables support different levels of performance, bandwidth, and data transmission speeds. Widely used in Ethernet networking, they provide the physical connection for local area networks (LANs), offering reliability, affordability, and ease of installation. Twisted pair cables continue to evolve to meet the demands of modern networking, with advancements enabling higher data transmission speeds and bandwidth capabilities.

Oe250 Slim CAT 6 U/UTP LSZH
(4 x 2 x 0.54)



OE400 CAT 6 U/UTP LSZH D
(4 x 2 x 0.56)



OE400 CAT 6 U/UTP PE F
(4 x 2 x 0.56)



OE500 CAT 6A S/FTP LSZH C
(4 x 2 x 0.56 /30% TCWB)



OE500 CAT 6A U/FTP LSZH C
(4 x 2 x 0.56)



Patch Cord CAT 6 U/UTP LSZH
Stranded 24 AWG E



Mr. Berker Mustafa Alkan - Deputy Manager of OPTOKON Elektronik

Fire Resistance

On the 17th of April 2024, we carried out a test of our newly developed fire resistant optical cable, designed for use in harsh environments, in the state testing facility PAVUS in Veselí nad Lužnicí. The test was aimed at demonstrating the cable's functionality in a fire for 90 minutes at a temperature of more than 1000 degrees Celsius.

The cable successfully met the requirements based on the standard ČSN 730895.

This cable can be offered to our customers for use in projects requiring a higher standard of fire resistance of the installed building technology system.

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