



OPTOKONGROUP
WORLDWIDE

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INTRODUCTION

OPTOKON Middle East for Industry, based in Riyadh, Saudi Arabia, is a leading provider of fiber optic, telecommunications, and network infrastructure solutions. As a member of the OPTOKON Group, the company specializes in the manufacturing, installation, integration, testing, and maintenance of advanced fiber optic systems. OPTOKON serves government, defense, industrial, and commercial sectors with high-quality products and turnkey solutions, including data center infrastructure, low-current systems, ruggedized communication networks, and technical support services. With a commitment to innovation, quality, and reliability, the company supports the development of modern communication infrastructure across Saudi Arabia and the Middle East.



RIYADH

OPTOKON Middle East
CR: 1010831405
VAT: 311439066500003



OPTOKON GROUP KEY DATES

1991

Established in the **Czech Republic** taking over the extended production program of optical connectors produced by **TESLA Jihlava**

1999

Independent ISO 9000 **OPTOKON Calibration Laboratory** established

2002

“NBU” (NATO) approved company

1996

Subsidiary of USA company **METHODE ELECTRONICS, Inc.** & **ISO 9002** approved company

2001

Main member of Fiber Optic normalization council **CENELEC**

2006

Established **OptoNet Communication Ltd.** - Data network services and Optical line

2007

Expanding of OPTOKON Group
(1996 Slovenia, 2001 Ukraine,
2002 Poland, 2008 Serbia, 2008
Latvia)



2011

**OPTOKON as purely Czech
company** & Expanding to Middle
East



2015

Established facility in Malaysia
OPTOKON, Malaysia, OPTOKON
Calibration Laboratories in Kuala
Lumpur & Ipoh



2015

Established **OPTOKON Kable
Ltd.** - Expanding to fiber optic
cable manufacturing



2018

OPTOKON Testing division
*according to the standard ČSN
EN ISO/IEC 17025*



2019

Established **OPTOKON Elektronik
Limited Şirketi**, Turkey



2022

New **OptoNet Datové Centrum Vysočina** – Expanding data network services, Meet Tier 3 Certification



2022

Established **OPTOKON Middle East for Industries**, Kingdom of Saudi Arabia



2023

Established **OPTOKON Egypt**



2023

TECHNICAL TRAINING AND TESTING CENTER FOR THE ARMY OF THE CZECH REPUBLIC AND NATO COUNTRIES



2026

Established **Optokon Middle East LAB for Manufacturing**





OPTOKON GROUP

Červený Kříž 250
586 01, Jihlava
Czech Republic



OPTOKON Kable

Kouřimského 2500
39301, Pelhřimov
Czech Republic



OPTOKON Middle East

King Abdullah Rd,
King Faisal District, office 203
Riyadh, Kingdom of Saudi Arabia



OptoNet Communication

Červený Kříž 318
586 01, Jihlava
Czech Republic



OPTOKON Elektronik

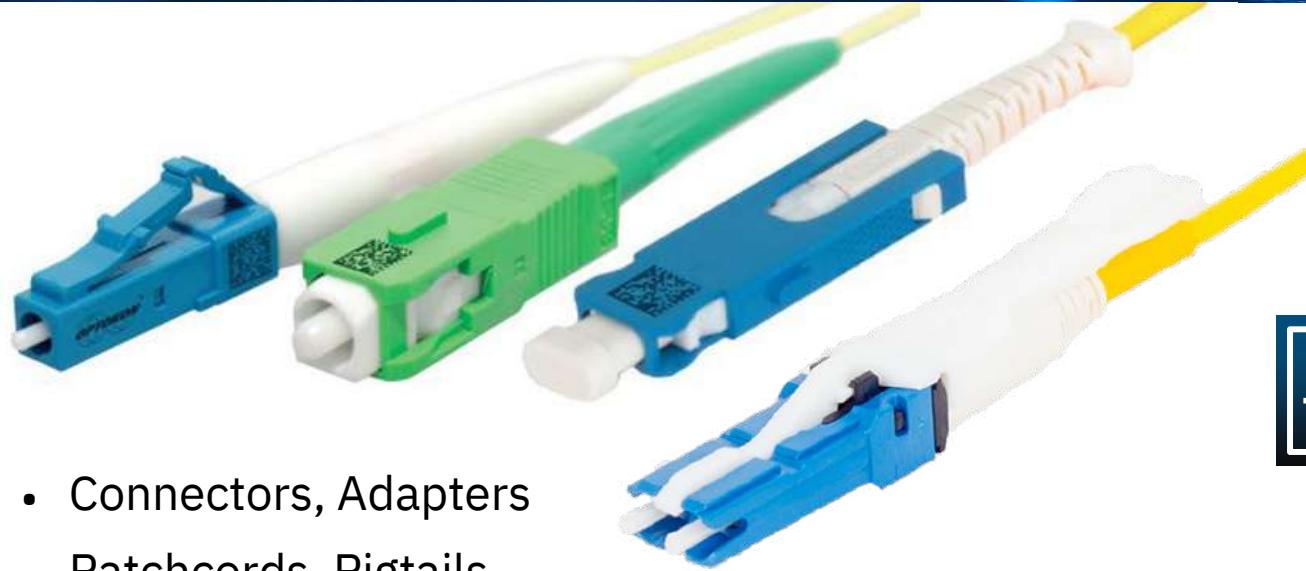
www.optokonelektronik.com



OPTOKON Pacific

www.pacific.optokon.com

CONNECTORS, CABLE ASSEMBLIES & ATTENUATORS



- Connectors, Adapters
- Patchcords, Pigtails
- Attenuators

QUICK-CURE™
Quick installable connectors



QUICK-CURE™
SOC Splice on
Connector



**RIBBON
TECHNOLOGY**



METHOD AND TECHNOLOGY PROTECTED BY JAPAN PATENT NO. 100091683, EUROPEAN PATENT NO. 05765008.7-1234-KR2005001904.

OPTOKON SUPERVISOR

100% OF OPTOKON OPTICAL CONNECTORS
TESTED WITH TRACEABILITY MONITORING SYSTEM.

LIFE TIME WARRANTY

**The Best
Insertion Loss
in the market
0.10 dB**



OPTOKON SUPERVISOR: QR CODE MARKING EXAMPLES

- All OPTOKON product marked by QR or Matrix Code
- Display of the product details by QR reader on Phone



SN-MT CONNECTOR

- **Up to 16-fibers in a single row**
- Same connector footprint as SN connector
- **The industry's highest density connector**
- 2.7x denser than MPO-16F
- 1.3x denser than MPO-32F
- 200 micron rollable-ribbon compatible
- Insertion loss max.0.35dB max IEC Grade B

Simplifying Leaf-Spine Cross-connections



DATA CENTER
DCS[®]
CABLE SYSTEM

DOS DATA CENTER CABLING SYSTEM

The PUDOS is an economical rack mountable patch panel for use with manufactured pigtailed, pre terminated cables. The cables are strain-relieved at the rear of the unit. The pivoting shelf is equipped with bend radius protection which guides, stores and organizes excess slack. This prevents damage to fibers prior to routing into couplings. In addition the pivoting shelf allows full access to the internal fiber connection, easy cleaning and connection management.



PUDOS-1E-3456
Termination for 216 port (16F)
3456 Fibers



PUDOS-1E-6912
Termination for 216 port (32F)
6912 Fibers

LIFE TIME WARRANTY



6x SN-MT® Multi-Fiber Connector
(16 fibers per connector)



Optical cable 96F to 384F



High density with duplex
SN® Connector and adaptor



PUDOS-1E-384-SNMT4
Termination for 384 Fibers

DATA CENTER
DOS®
CABLE SYSTEM



PUDOS-1E-1152-SNMT4
Termination for 1 152 Fibers



PUDOS-1E-768-SNMT4
Termination for 768 Fibers

COUPLERS, WDM, CWDM, DWDM

- **FBT (Fused Biconic Taper) technology**
(meet Bellcore requirements ANSI/NCSL Z540-1 and CENELEC norms)
- **PLC (Planar couplers)**



DWDM available in a variety of packaging options for standard configurations of 4, 8, 16, 32 and 40 channels.



SPLITTERS CONFIGURATION

FBT

coupling ratio:
Type 01x02

50/5	80/2
0	0
66/3	90/1
3	0

60/4 99/1
0 **Type 01xN**
etc.

01x0/3	33/33/33
0	
3	25/25/25/2
01x0	5

4 **variable ratio**
(on request)

4

WAVELENGTHS:

Single mode:

1310 nm & 1550 nm (dual window)

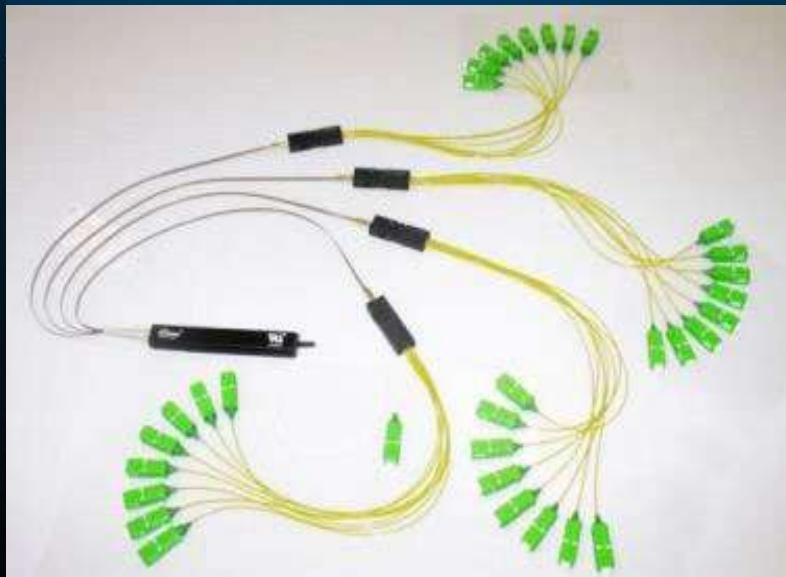
1310 ± 40 and 1550 ± 80nm

1310 nm - 1550 nm (wavelength independent)

1250 - 1650 nm, full CWDM range

Multimode:

850 nm or 1300 nm (single or dual window)



PLC

coupling ratio:

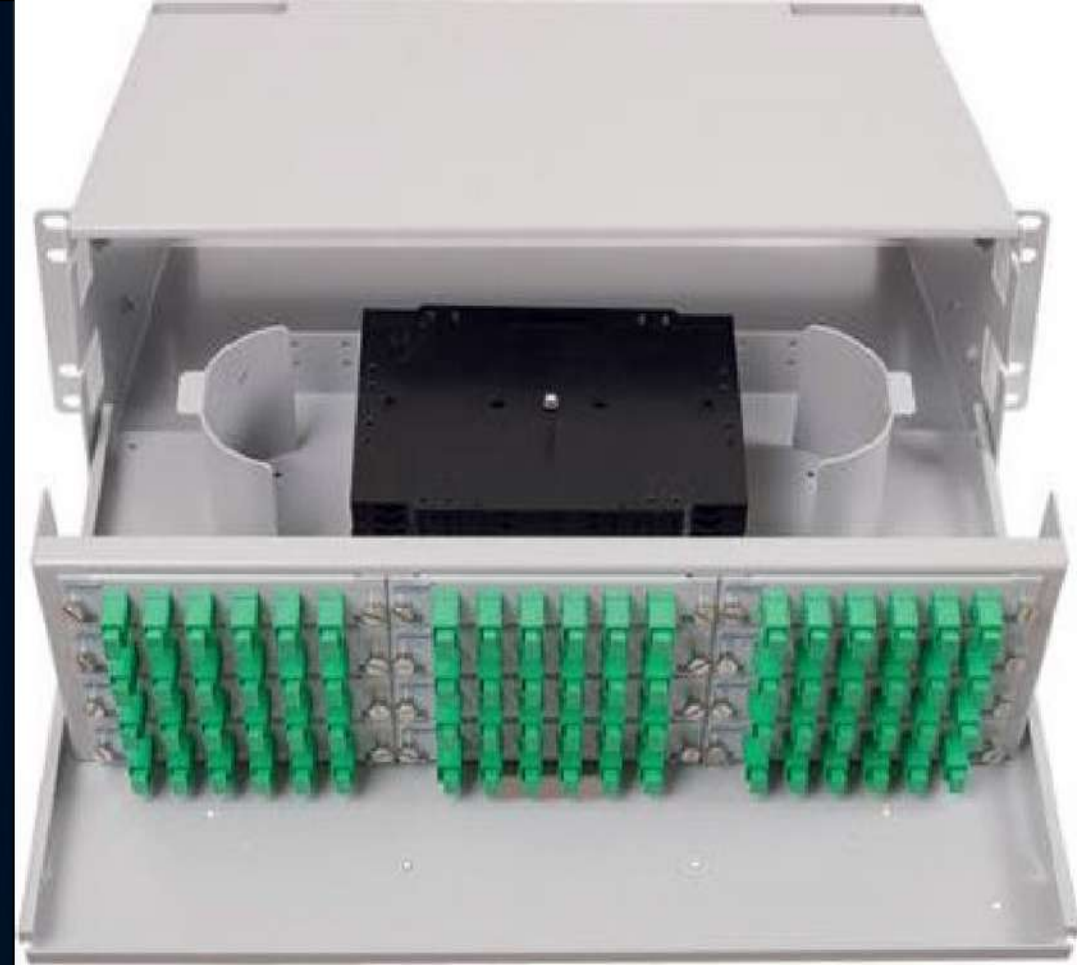
- **01x02** (2x50%)
- **01x04** (4x 25%)
- **01x08** (8x 12.5%)
- **01x16** (16x 6.25)
- **01x32**
- **01x64**
- **01x128**

RATIO FIXED!

CABLE MANAGEMENT SYSTEM

... managing optical cables with OPTOKON is EASY!

- Rack Mount
- Wall mount
- End user boxes
- Outdoor
- 19" Racks
- Accessories
- Cable Closures



**Eco-friendly product**
Lifetime warranty

CABLE MANAGEMENT SYSTEM

... managing optical cables with OPTOKON is EASY!



Eco-friendly product
Lifetime warranty



OPTOKON TEST EQUIPMENT

- Pocket Power Meter, **Ribbon Pocket Power Meter**
- Standard Power Meter and Light Source
- FTTx Power Meter and Light Source
- Loss Test Sets, 4 channel IL/RL tester
- POF Lost Test Set and POF Indicator
- Ruggedized Power Meter and Loss Test Set
- Mini OTDR **Singlemode & Multimode** version
- **CWDM Optical Analyzer**
- Precise laboratory Light source



**THE PM-215E CUTS
LARGER POWER METERS
TO RIBBONS**



**OUR NEW OTDR
MOT-200**

**SMALLEST ON
THE MARKET**

PM-215E

Pocket optical power meter
USB probe



OPTOKON TEST EQUIPMENT

PM-215E



PM-215E (SI) (M)
PM-215E-MPO
PM-215E-CWDM

**NEW
DESIGN**

Insertion Loss test equipment:
PM-215E



**SMALLEST ON
THE MARKET**

LS-215E



Pocket optical Power Meter – Light Source
USB probe

OPTOKON TEST EQUIPMENT

Other test equipment:

OFT-840



RL tester

**Test equipment
with RL meter**

OFT-920



**Rugged tester
HMA connectors**

**Expanded Beam
Non-physical
contact testing**

PM-240 MTP/MPO/SN



**Multifiber Optical
Power Meter**

**MTP/MPO/SN input
interface
Separate photodetectors
for all fibers
Up to 24 fibers testing**

PM-4212



**Power meter
for 4 channels**

**PM for
simultaneous
measurement**

DATA NETWORK EQUIPMENT

- Media Converters
- **10/100/1G/10G/40G/100G**
- SFP, SFP+, XFP Transceivers
- EDFA Amplifiers
- OPTTA - Powerful servers for AI
- **FOTAS - Perimeter Security system**

OPTTA family

- Ruggedized Military AI server OPTTA-PP62X
- Commercial / Industrial AI server AICP-X128



OPTOKON Ruggedized Network

- HMA series harsh environment connectors and patchcords
- Cable drums for tactical optical cables
- Ruggedized field fiber optic converters and repeaters
- Ruggedized field switches, routers
- Ruggedized phones
- Ruggedized fiber optic test equipment
- Ruggedized communication systems
- Maintenance and installation tools



SUPPLIER OF
NATO ARMED FORCES
FOR MORE THAN 24 YEARS

NATO supplier
code: 1583G



NEW GENERATION OF LMCP FAMILY

TEMPERATURE RANGE **-40 TO +85 °C**

UPLINK **1/10/25 GBPS**

The most powerful LMCP

LMCP-28H-NGe2

Light Mobile Computing Platform

- Intel® Xeon® processor
- **Up to 256 GB RAM ECC DDR4**
- 2x removable SSD 2.5 inch, RAID 0,1
- Wide operating temperature range: **-40 to +85°C**
- **Uplink 1/10/25 Gbps**

LMCP-7H

Compact, ultra-durable server

- Intel® Xeon® Processor
- **Up to 64 GB DDR4**
- Wide operating temperature range: **-32 to +75 °C**

LMCP-28H-NGe1

Compact, ultra-durable server

- Intel® Xeon® processor
- Up to 64 GB RAM ECC DDR4
- 2x removable SSD 2.5 inch, RAID 0,1
- Wide operating temperature range: **-40 to +85°C**
- **Uplink 1/10 Gbps**



OPTOKON Ruggedized Network



LMCP-7H

Compact, ultra-durable server

- Intel® Xeon®/ Core™ Processor
- Up to 64 GB DDR4
- 3x 1G routed server ports
- 7x 1G switch ports

OPTTA-PP62X

Land Mobile Graphics Processing Computing Platform

- 2x Intel® Xeon® Silver 4316 @ 2.30 GHz
- Up to 4 TB DDR4 RAM
- Up to 8 removable SSD
- 2x 1G Ethernet routed ports
- nVidia graphics card RTX™ A4000

Connectors and cables
for extreme temperatures
ranging from
-60°C to +85°C

CISCO Technology Integrator



LMSW-E33

Ruggedized 1/10 Gi gabit switch

- Ethernet Layer 2/3 Managed PoE Switch
- 2x 1/10G WAN, FO HMA or RJ-45
- 8 or 24x LAN 10/100/1000Base-T, PoE y

**OPTOKON'S R&D
SOLUTION TECHNOLOGY INTEGRATOR
OF CISCO SYSTEMS**



Metallic cables for harsh environment and military

- Rugged and durable specialized cables with multipin connectors
- Output ports for various types of signals such as Ethernet, video, USB, and serial signals
- Designed for industrial and military environments
- Flexible EMI shielding to protect against electromagnetic interference, information leakage



LMSP

- Designed for diverse military environments like naval ships and infantry applications
- Seamlessly integrates onto various platforms, catering to unique armed forces branch needs
- Versatile mounting for portable operations in any scenario
- Daylong battery meets demands of multiple mission profiles in Military vehicle platforms
- Compatibility with Windows and Linux platforms ensures long service life for embedded machine vision battery-powered appliances



LMDS Light Mobile Data Switch

- 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



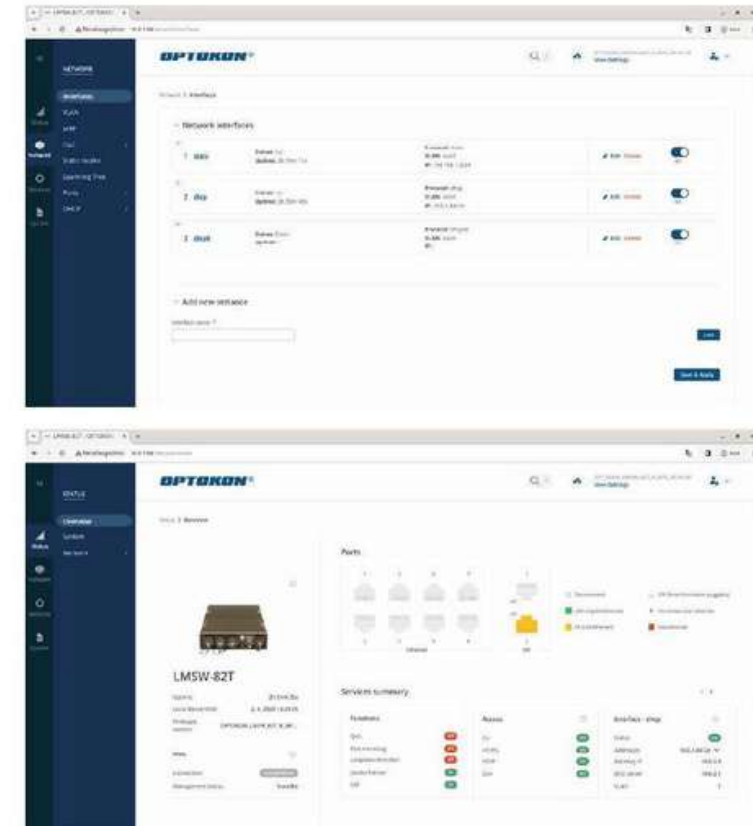
LMSW-82T

The OPTOKON® LMSW-82T ruggedized switch extends networking capabilities to extreme environments, featuring L2/L3 functionality and 1G fiber optic ports with HMA connectors for tactical network interconnection. Resistant to harsh conditions, it supports management functions like SNMP and DHCP, and fits 24V DC power systems. Ideal for mobile and embedded networks.

- Reliable operation in extreme conditions for secure communications.
- HMA "Expanded Beam" connectors for tactical network interconnection.
- Supports various management functions.
- Compatible with 24V DC power, operates from -40 to +70°C.



**NEW
ON THE
MARKET!**

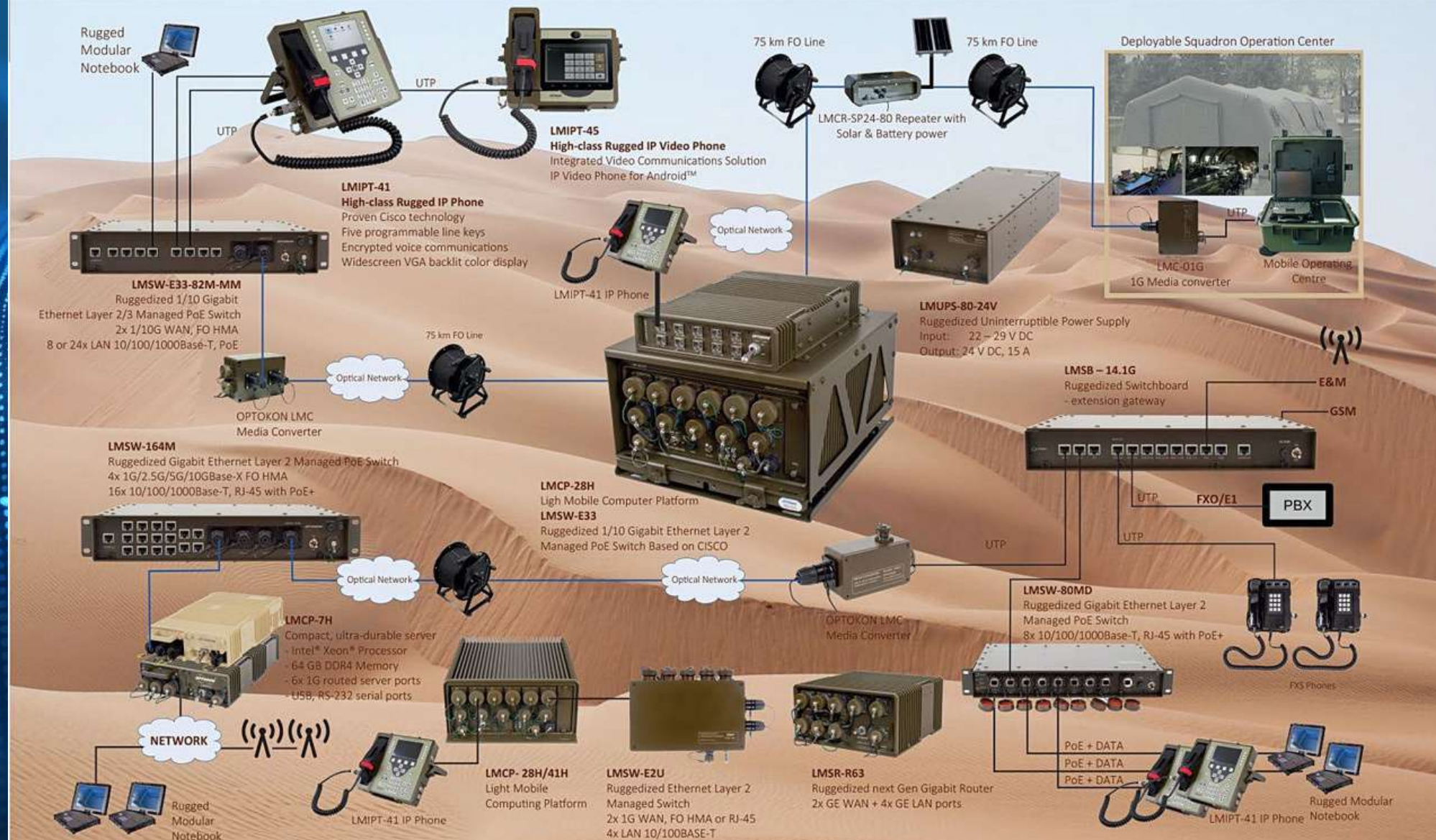


HW ARCHITECTURE FOR C2/C4 ISR

COMMAND, CONTROL, COMMUNICATIONS, COMPUTERS, INTELLIGENCE, SURVEILLANCE AND RECONNAISSANCE



NATO supplier code: 1583G
WWW.OPTOKON.COM





OPTOKON Testing Division

Mechanical testing, temperature and semi-anechoic chamber

The OPTOKON testing division offer Individual temperature and mechanical test methods according to the standard CSN EN ISO/IEC 17025.



OPTOKON Temperature chamber



OPTOKON Pressure resistance test workplace

**Calibration services:
Calibrating thermometers
from -40°C do +140 °C.**



CERTIFICATE OF ACCREDITATION

No. 628/2020

OPTOKON, s.r.o.
with registered office Červený Kříž 250, 586 01 Jihlava, Company Registration No. 13692283
to the Testing Laboratory No. 1755
OPTOKON Testing Laboratory

Scope of accreditation:

Testing of optical cables and fibres to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of Accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with:

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited Conformity Assessment Body.

The Certificate of Accreditation is valid until: 22. 10. 2023

Prague: 22. 10. 2020



Jiří Růžička
Director
Czech Accreditation Institute
Public Service Company

OPTOKON Testing Division

Testing services:

- Accredited fiber optic calibration laboratory 317/2011
- EMC test (MIL-STD 461G and EN 50147-1)
- Tensile test fiber optic cables
- Cable abrasion test
- Pressure resistance test
- Shock resistance test
- Repeat bending test
- Torsion Test
- Test of cable flexibility
- Bending test in loop
- Dynamic bending test
- Temperature cycling
- Water penetration test

The OPTOKON EMC chamber meets all the MIL-STD 461G requirements for the certified EMC measurement of the tests: CE 101; CE 102; CS 101; CS 114; CS 115; CS 116; RE 102 and RS 103. The design of the chamber meets the field intensity minimum 50 V/m for the susceptibility tests. The shielding effectiveness measured according to the EN 50147-1 is stronger than the EN 50147-1 recommendation.



OPTOKON EMC chamber



Calibration Laboratory

- Independent
- Calibration of Fiber Optic Test Equipment from all manufacturers
- Professional personnel certified by third party
- Traceability of etalons
- Interlaboratory Comparisons
- Accredited Calibration of OTDR's

ACCREDITATION NUMBER 317/2011
according to EN ISO/IEC 17025:2005

Calibration Center for Europe and the Asia-Pacific Market





MEMBER OF OPTOKON GROUP

OPTOKON KABLE DESIGN & PRODUCTION CENTER

- European fiber optic cable manufacturer
- Latest modern technology





MEMBER OF OPTOKON GROUP

CONNECTING THE COUNTRIES OF THE WORLD WITH HIGH-END FIBER OPTIC CABLES

Optical and hybrid cables

for mobile and tactical use based on military norm MIL-C-85045





MEMBER OF OPTOKON GROUP

QUALITY POLICY AND THE ENVIRONMENT

Our European cable production facility is ISO 9001:2008 certified and each production cable length is subject to quality control.

OPTOKON Kable production complies with the following international standards:

- IEC & EU CENELEC standards
- Bellcore GR -20, Telcories & TIA standards
- The latest ITU-T CCITT recommendations





®

OPTOKON Elektronik Limited Şirketi

Member of OPTOKON GROUP



- Rugged computing devices
- Rugged notebooks, tablets, box PCs, handheld devices, and defend panel PCs
- Manufacturer of passive components and routers
- Designed to harsh environmental conditions, industries and military
- Military-grade Intercom System: Robust, clear communication for ground vehicles, with wired and external connectivity, noise cancellation, and Bone Conduction Communication.



OEME5100S

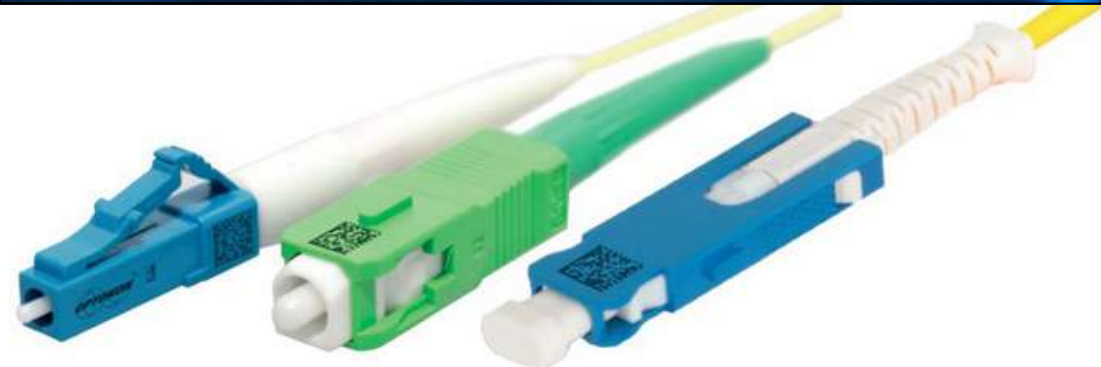


OPTOKON Middle East (KSA)

Member of OPTOKON GROUP



- The company is based in Riyadh, Kingdom of Saudi Arabia
- Manufacturer of passive components
- Fiber optic solutions and services in the Middle East region
- Ruggedized products
- Installation, maintenance, and training for OPTOKON test equipment
- Technical Services for installation, integration and maintenance of all OPTOKON Products



**OPTOKON Middle East
Supervisor marking laser**





OPTOKON Pacific (Malaysia)

Member of OPTOKON GROUP



- Camera systems
- Video door entry systems
- Access systems
- NVR Recorders
- Security systems
- Active network devices



Malaysian calibration Laboratory

- Accredited Calibration Center for the **Asia-Pacific Market**
- Cooperation with Malaysia's government Calibration Laboratory **SIRIM SST**.



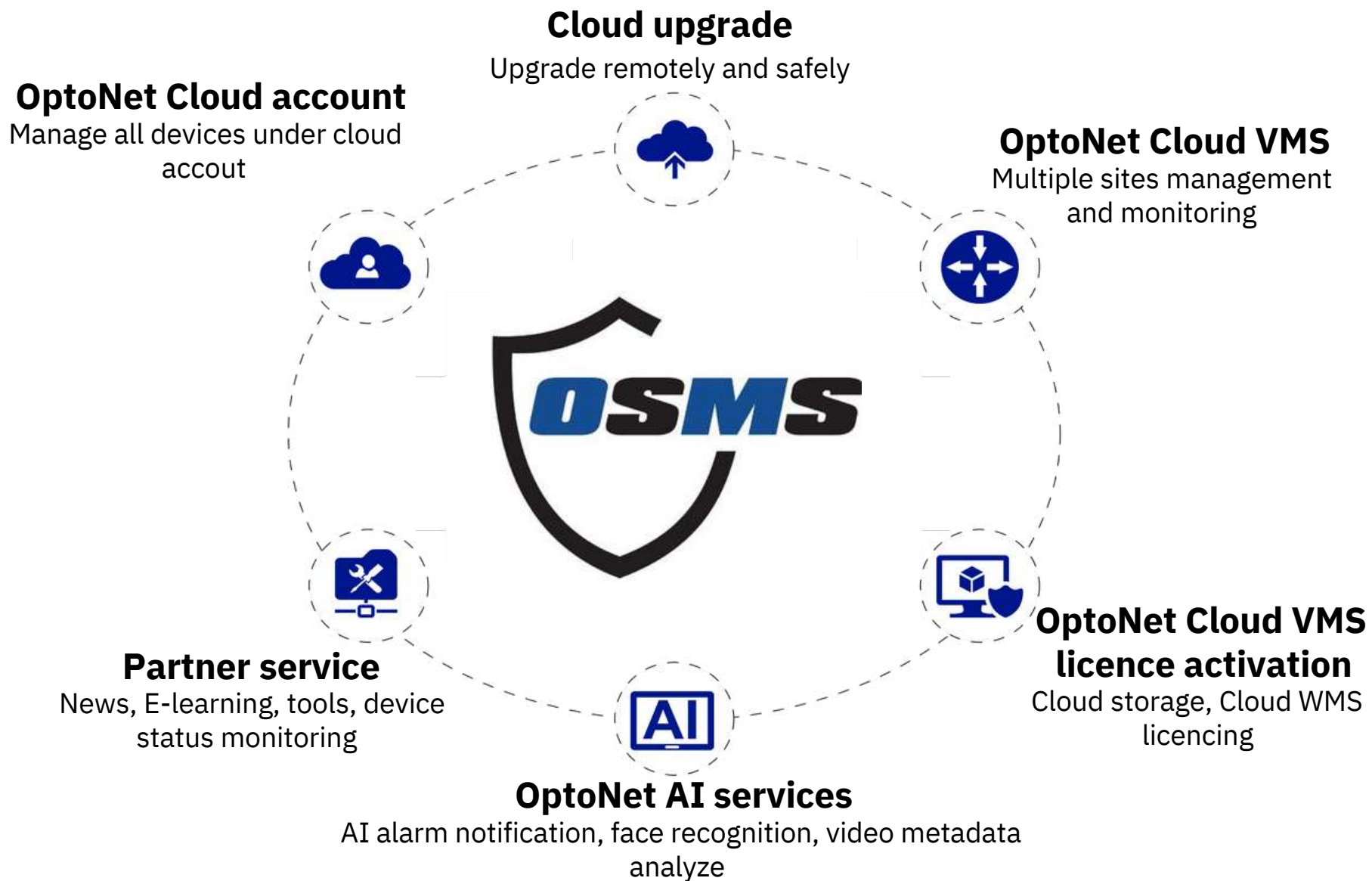
IN THE HEART OF EUROPE

- Backbone ("PAN European" a "Viking Network")
- Data Center Vysočina Optical Network



OPTOKON Service and Installation

- Service of Fiber Optic Test Equipment & Devices
- Installation of Fiber Optics Lines



DATOVÉ CENTRUM VYSOČINA

- Zero single points of failure. Tier IV providers have redundancies for every process and data protection stream.
- 99.995 % uptime per annum.
- 2N+1 infrastructure (two times the amount for operation plus a backup). 2N+1 is “fully redundant.”
- 26.3 minutes of downtime per annum as a maximum
- 96-hour power outage protection

NEW OPTOKON DATA CENTER SYSTEM

- HIGHEST DENSITY CABLING SYSTEM
- MONITORING OF ENVIRONMENT

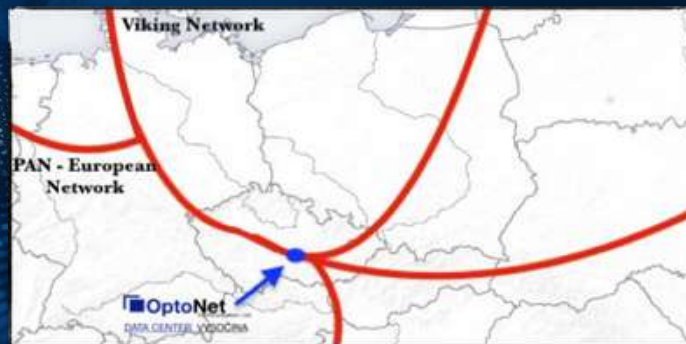
DATA CENTER
DOS[®]
OPTOKON SYSTEM





- Cloud, Hybrid cloud, Private cloud
- Redundant storage
- SaaS, PaaS, IaaS
- IT as service
- Server housing, hosting
- Services for ISP
- Services for corporates customers
- IPTV, streaming

The Main European fiber-optic networks





NATO supplier code: 1583G
WWW.OPTOKON.COM

Reference

Supplying Fiber Optic solutions to Military end-users for more than 24 years

OPTOKON's NATO reference:

Albania	Montenegro	Nato Mission in		
Bulgaria	Croatia	Afghanistan	Netherlands	
Czech Republic	Poland	Poland	Portugal	
Denmark	Romania	Slovak	Republic	
Estonia	France	Slovenia	Spain	Türkiye
Germany		United Kingdom	USA	
Greece				
Hungary	Italy			
Latvia	Lithuania			

OPTOKON's reference list in Military Area:



ČSN EN ISO 9001: 2015
ČSN EN ISO 14001: 2015
ČOS 051672 (AQAP 2110)
CERTIFIED



Thank you for your
attention



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