

LMSB – 14 Ruggedized Switchboards

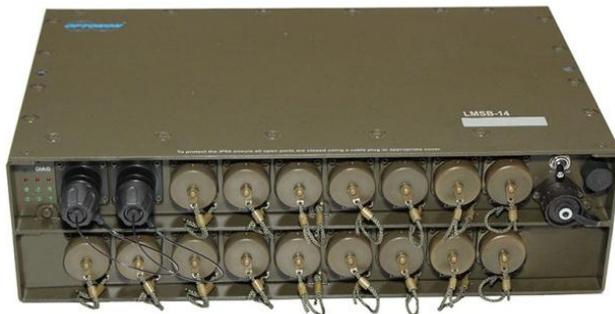


NATO supplier code: 1583G

NATO IST RTG 095 LEADER

Description:

The LMSB-14 is the next step in OPTOKON ruggedized field equipment. The LMSB-14 is ruggedized switchboard with capability of 206 simultaneous connections utilizing modern technology in telecommunication fields. The LMSB-14 is in addition equipped with 2 optical ports with OPTOKON HMA-J connectors in order to ensure the communication in harsh environments over long distances. Rugged metal box of switchboard is waterproof, lightweight and easy to transport. Switchboard contains two RF stations which allows Radio dialing via handset. It supports major telephony techniques as well as analog fax and data equipment.



The interconnection networks, based on fiber optic components, are designed to connect the nodes of tactical networks with the help of optical fiber cables. The Expanded Beam technology used preserves all advantages of signal transmissions through optical lines in harsh environmental field conditions.

For example, the tactical fiber optic cables with Expanded Beam connectors allow arranging of the connection between headquarters and subaltern points in field conditions in a very short time. The flexible 2 – 6 fiber 6 mm outer diameter optical cables have a high crush and strain relief resistance and a rugged field repairable connector design. The wide range of cable drums has been developed to facilitate storage and handling with cable coils. The drums are designed to store up to 500 m of tactical cable and the low weight of the cable coils allows easy network reconfiguration in field conditions.

Ruggedized switchboard can be cascaded in master/slave mode. It allows expanding number of subscribers. The possibility of establishing subscriber's conference call is an obviousness.

The LMSB-14 can be mounted into vehicle as well as deployed on stationary place. It's external battery pack option ensures uninterrupted function till the main power supply will be restored.

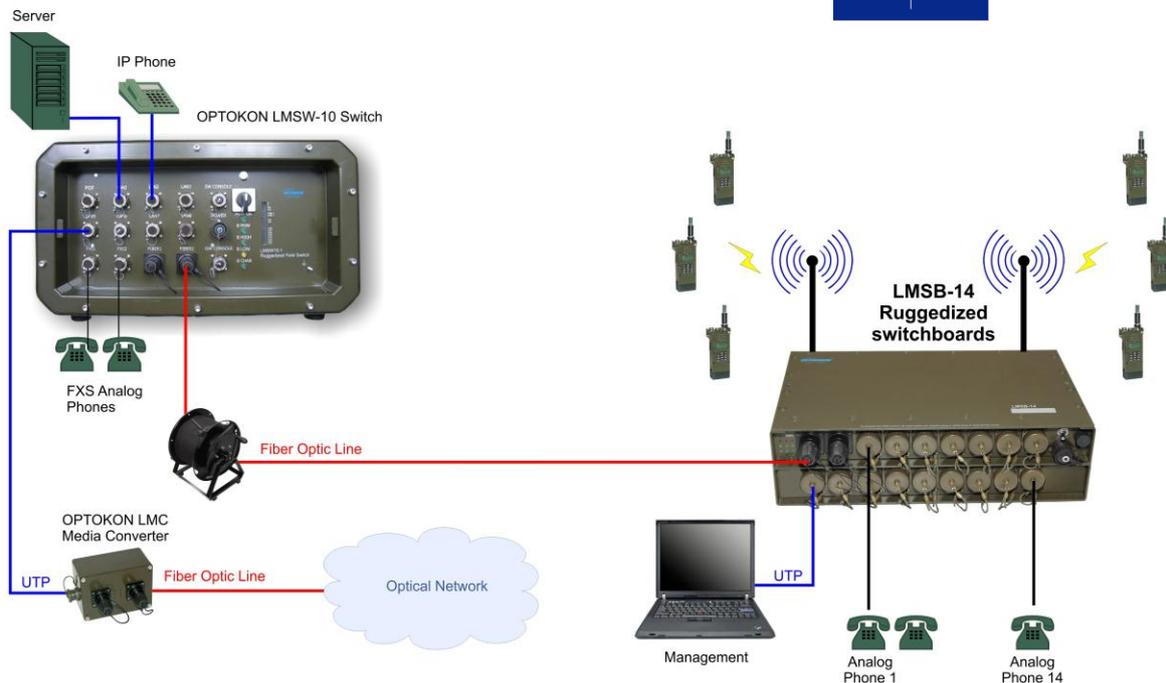
Switchboard LMSB-14 supports connection of external antenna via prepared connector. It allows connection of on-vehicle antenna or optional stationary antenna.

Applications:



NATO supplier code: 1583G

NATO IST RTG 095 LEADER



LMSW-10 ruggedized switch have been developed as a part of the Integrated System for Armed Forces of NATO. Czech Army Technical specifications: TP-LMSW10-OPT01-08

Specifications:

Optical Interface	Connector	2x HMA-J
	Cable type	MM: 62.5/125 μm 50/125 μm SM: 9/125 μm
	Data rate	10/100/1000 Mbps
	Wavelength	MM: 1300 nm, SM: 1310, 1550 nm
Electrical Interface	Duplex mode	Full duplex
	Connector	2x RJ45
	Data rate	10 Mbps, 100 Mbps, 1000 Mbps
	Duplex mode	Half / Full duplex
Subscribers interface:	Cable	10Base-T Cat. 3, 4, 5, UTP, 100/1000Base-TX Cat.5, 5e or higher
	Connector	1x RJ45 – serial line
	Data rate	RS232 up to 256 Kbps
	Subscriber lines	14 CB/LB
Power Input	Maximum lines:	206 – up to 5 dial trunks
	VoIP lines	Depends on configuration
	Temperature	230V AC, 9 – 36 V DC, Battery pack (Optional)
Humidity	-30 - 50°C (Operating), -50 - 65°C (Storage)	0 - 90% non-condensing
Environmental	MIL-STD 810C, E, F	
IP protection		IP63

Options:

- Battery pack
- External stationary antenna



NATO supplier code: 1583G

NATO IST RTG 095 LEADER

Approvals:

1. Environmental and mechanical tests		2. Electromagnetic compatibility tests
MIL-STD 810E Method 501.3 High temperature	working temperature +50°C storage temperature +65°C	EMC – electromagnetic compatibility according to EMC Test Regulations: EN 55022/1998 + A1:2000 + A2:2003, Class A EN 55024/1998 + A1:2001 EM emission, EM compatibility
MIL-STD 810E Method 502.3 Low temperature	working temperature -40°C storage temperature -50°C	
MIL-STD 810E Method 503.3 Change of temperature	High storage temperature +65°C Low storage temperature -50°C	
MIL-STD 810E Method 506.3	Rain	
MIL-STD 810E Method 507.3	Humidity Cyclic 95% RH max	
MIL-STD 810E Method 513.4	Acceleration	
MIL-STD 810E Method 514.4	Vibration	
MIL-STD 810E Method 516.4	Impact	



ISO Certified



NATO NBU Certified