

LMSW-42 Ruggedized Unmanaged PoE **Gigabit Ethernet Switch**



Description:

The LMSW-42 is a low cost ruggedized field switch with 2 fiber optic ports and 4 RJ-45 ports. High Power PoE ruggedized switch is specifically designed to meet IEEE 802.3af/at standards for powering network devices with up to 30 W output per PoE port. With PoE function, it becomes simplified to install network devices such as IP phones, IP surveillance cameras, wireless access points, and other PoE enabled devices in outdoor or remote areas where are hard-to-reach power source.

The LMSW-42 switch supports 4-port Power-over-Ethernet on ports 1 to 4 and 2-port 100/1000Base-X optical fiber. The switch is classified as power source equipment (PSE) can be used to power IEEE 802.3af/at standard devices (PD), eliminating the need of additional power cable wiring. This PoE switch supports IEEE 802.3/802.3u/802.3x/802.3ab with 10/100/1000M, full/half-duplex, MDI/MDI-X autosensing to provide an economical high-bandwidth solution for your ruggedized Ethernet network.

Features:

- Robust compact design
- Resistant to harsh environmental conditions and rough handling
- 2x 100/1000Base-X fiber FO, HMA-J connector
- 4x RJ-45 10/100/1000Base-T(X)
 - full/half-duplex,
 - MDI/MDI-X auto-sensing
 - IEEE802.3at/af PoE Output (30 W/Per Port)
- Maximum PoE Output power budget 120 W
- LED signalization Per unit:
- Input Power: DC 50 V



Specifications:

Standard data 10/100/1000Base-T(X): IEEE 802.3/802.3u/802.3ab/802.3z/802.3x/802.3at								
	PoE	IEEE802.3at/af PoE Output (30 W/per port)						
Interface		Metallic: mechanical resistant, watertight connectors						
		Optical: HMA-J 50/125 μm or 62.5/125 μm MM optical cable, 9/125 μm SM optical cable						
Wavelength		MM: 1300 nm, SM: 1310 nm, 1550 nm						
Distance		UTP cable 10/100/1000Base-TX: 100 m						
		MM optical cable, full duplex: 2 km,						
		SM optical cable, full duplex: 10, 30 km						
Power supply:		50 V DC						
		Power consumption: 130 W max						
Electromagnetic compatibility tests:								
EMC – Electromagnetic compatibility: MIL-STD 461F methods RE102, CE102, CS114, RS103								
Environmental		Fulfils MIL-STD 810E						
Temperature		Operating: -40 to +75°C, Storage: -40 to +85°C						
Humidity		10% to 95%						
Mechanical		Fulfils MIL-STD 810E, IP 65 protection						
Dimensions		215 x 215 x 65 mm (W x D x H)						
MTBF		700 000 hrs						



Functionality:

Switch Architecture Back-plane (Switching Fabric): 12 Gbps

Data Processing Store and Forward

Flow Control IEEE 802.3x flow control, back pressure flow control

Jumbo Frame 10K Bytes

MAC address Table Size

Packet Buffer Size 1.75 Mbits PoE Standard IEEE 802.3at/af

PoE RJ-45 pin RJ-45 port # 1to # 4 support IEEE 802.3at/af

PoE RJ-45 pin assignment End-Span, Alternative A mode

> Positive (V+): RJ-45 pin 1, 2. Negative (V-): RJ-45 pin 3, 6. Data (1, 2, 3, 6, 4, 5, 7, 8)

Network Connector 4x RJ-45, RJF type

10/100/1000BaseT(X) auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex

Network Cable UTP/STP above Cat. 5e cable

EIA/TIA-568 100-Ohm (100 m)

Fiber Cable Multimode: 50/125 μm, 62.5/125 μm

Single mode: 9/125 µm

Protocol CSMA/CD

Reserve polarity protection Overload current protection

Ordering code:

LMSW-42	-	XX	-	XX	-	DC50
	F	iber optic		Distance (FO)	-	Power supply
	M5	•		XX ¹ : 2 km (MM)		· one supply
	Me	,		10 : 10 km		DC: 50 V DC
	S3	SM 1310 nm		30 : 30 km		

Note: 1) MM fiber – the distance depends on fiber type, up to 2 km. SM fiber – longer distance on request

Standard accessories:

 Power cable LMCAB-PSC-03-P2S

- 1 side: 2-pins plug connector

- 2 side: free wires

Manual

Options:

 Military-Grade UTP cables (IP67) xx - length m LMCAB-LAN-xx-RJF6MG-RJ45 LMCAB-LAN-xx-RJ45-RJ45

Tactical fiber optic cable with HMA-J connectors