DSMS Military-Grade Optical Switch



Features

- Produced under MIL-DTL-83526/20/2 in accordance with NATO standards
- Robust ruggedized construction of 1.5 mm stainless steel bent and welded sheet metal with stainless-steel fasteners
- 100-240V AC input power (other power supply options are available on request)
- Protection IP67
- Baked-on, powder-coated surface finish (RAL6070, can be selected in RAL scale)
- Shielded waterproof connectors (fiber optics, UTP, power supply)
- Dual device mode for operating as two separate switches
- Built-in surge protector with front panel signaling
- Supports speeds of 10M, 100M, 1G and 10G bps
- · Rack- mounted or stand-alone enclosure
- Airline pressure relief valve
- Two-pole EMC filter
- Uplink redundancy
- Fan-less design

Applications

- Fiber optic distance extension for field networks
- Layer 2 Ethernet switching for forwarding frames to any port based on their MAC address
- Supports directed switch mode to send multicast traffic (such as video) only to the appropriate uplink port, preventing it from flooding other network ports
- Supports daisy chain configurations and redundant uplinks for critical applications that require protection; and sub 50ms restoration in the event of an uplink failure



Specifications

Standard Compliances		IEEE 802.3
		UL 62368-1, UL 60950-1
		IEC 62368-1, IEC 60950-1
	Safety	EN 62368-1, EN 60950-1
	,	CAN/CSA C22.2 No. 62368-1-14, CAN/CSA C22.2 No. 60950-1
		CE Mark
		EN 55032/24 CE Emissions/Immunity
	EMC	IEC 61000-6-4 Industrial Emissions
		IEC 61000-6-2 Industrial Immunity
Regulatory Compliances	ENAL	CISPR 32
Regulatory Compliances	EMI	FCC 47 Part 15 Subpart B Class A
		IEC 61000-4-2 ESD: Contact: 6 kV; Air: 8 kV
		IEC 61000-4-3 RS: 80 MHz to 1 GHz: 10 V/m (on UTP cabling)
		and 20 V/m (on STP cabling)
		IEC 61000-4-4 EFT: Power: 2 kV; Signal: 1 kV
	EMS	IEC 61000-4-5 Surge: Power: 2 kV; Signal: 2 kV
		IEC 61000-4-6 CS: Signal: 10V
		IEC 61000-4-8 (Magnetic Field), 30A/m
		IEC 61000-4-11 (General Immunity in Industrial environments)
	IP Rating	IP67 Protection
Environmental		REACH, RoHS and WEEE
Frame Size		Up to 10,240 bytes
	Copper	10/100/1000BASE-T (RJ-45) Waterproof
Port Types		Expanded beam HMA connectors
	Fiber Optic	10G-SR, MM, 850 nm, 300 m
		10G-LR, SM, 1310 nm, 10 km
Cable Types	Copper	EIA/TIA 568A/B, Cat 5 UTP and higher
	Fiber Optic	Singlemode: 9/125 μm, multimode 62,5/125 μm, multimode 50/125 μm
AC Power Requirements		100-240V AC
		3 Pin Terminal Waterproof
Dimensions (W x D x H)		480 x 440 x 67 mm (19" 1, 5U Rack Mount)
Weight		9 kg
Operating Temperature		-40 to 75°C
Humidity		5% to 95% (non-condensing)
Altitude		-100 m to 4,000 m (operational)
MTBF (hrs.)		304000
Warranty		5-year product warranty

ORDERING CODES

DSMS: Military-Grade Optical Switch

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DS	MS	-	✓	-	1	1	-	✓				
							•		Enclosure			
			R						19" Rack mount			
			S						Stand alone			
									Uplink Fiber Type			
					M1	85			Multimode 62.5/125 μm 0M1, 850 nm			
					M1	13			Multimode 62.5/125 μm 0M1, 1300 nm			
					M2	85			Multimode 50/125 µm 0M2, 850 nm			
					M2	13			Multimode 50/125 µm 0M2, 1300 nm			
					S1	31			Singlemode 09/125 μm 0S2, 1310 nm			
									Uplink Connectors			
								H2	Expanded Beam HMA, 2 channels			
								CS	Customer Specified			
Exam	ple											
DS	MS	-	R	-	S1	31	-	H2	INTELDAT military-grade optical switch, rack mount, single- mode 0S2, 1310 nm uplink fiber, 2-channel HMA connector			

