# 19inch2 9p Cisco Switch ESW9221



# 19"/2 ESW9221

### 19"/2 Cisco fiber switch

The 19"/2 9-p Switch gives you nine fiber ports and a Cisco CLI. With a rugged case that has a protection rating of IP65 against rain and dust, you can count on long-term performance in any environment.

#### Built to take a beating

The Server is built to withstand the harshest conditions over the long haul. It features aluminium casing, rugged MIL connectors for easy integration and will operate down to -40 C.

## **Guaranteed performance**

Our products always come with a lifetime support to ensure your equipment maintains peak performance for many missions to come. We also serve units and stock spare parts for 5 years end-of-life.

#### **Features**

- Cisco IE-4000 Switch Architecture
- 10-32 VDC



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Connector Interfaces		
SERVICE (back)	• 1x RS232 Service	
X1, X2, X3, X4 (front)	4 connectors which each has:	
	• 2x ETH 1000BASE-SX	
X5 (front)	• 1x ETH 1000BASE-SX	
X6 (front)	• 1x Console RS232	
X7 DC IN (front)	1x Power	

# Other Interfaces

9x Indicator (front)

1x System Button (front)

Technical Specification	
LAN 1000BASE-SX	1000BASE-SX standard with MM 850nm fiber
Switch Architecture	Cisco IE-4000 Switch Architecture
MIL-STD-1275D	5.3.2.1 5.3.2.2 5.3.2.3 5.3.2.4
Polarity protection	Protected against polarization failure on the power input in the voltage range of normal operation.
Power consumption	100W
Power input	10-32 VDC
Coating and color	Dupont AE0305-6603120 (RAL6031)
Cooling	Passively cooled
Dimensions Width and Height	220x88mm (WxH)
Earth point	M6 12mm
Rack Mounting depth	400mm
Surface treatment chassis	Chromit-Al
Weight	7 kg

# **Environmental Specification (\*designed to meet)**

Functional shock, operating*	MIL-STD-810G. Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment
Fungus*	MIL-STD-810G, Method 508.6, Fungus
High temperature - Operating*	MIL-STD-810G, method 501.5, Procedure II - Operation 55 °C
High temperature - Storage*	MIL-STD-810G, method 501.5, Procedure I - Storage 71 °C
Humidity*	MIL-STD-810G, Method 507.5, Procedure II - Aggravated

	95 ± 4 %rh
IP Class (Solid Particle Protection)*	IP Class 6X
IP Class (Water)*	IP Class X5
Low air pressure - Rapid Decompression*	MIL-STD-810G, Method 500.5, Procedure III - Rapid Decompression
Low air pressure - operating*	MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage 4572m (15.000 ft)
Low temperature - Operational*	MIL-STD-810G, method 502.5, Procedure II - Operation -20 C
Low temperature - Storage*	MIL-STD-810G, method 502.5, Procedure I - Storage -40 C
Noise level*	Maximum noise level of 40dB SPL A-weighting @ 1m distance
Salt fog*	MIL-STD-810G Method: 509.5
Transit drop, in shipping package	*MIL-STD-810G, method 516.6, Procedure IV - Transit Drop. Table 516.6-VI, Transit drop test, < 45.4 kg, < 91 cm, Manpacked or man- portable
Vibration - Helicopter*	MIL-STD-810G. Method 514.6, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
Vibration - Loose Cargo*	MIL-STD-810G. Method 514.6, Procedure II - Loose cargo transportation, Category 5 - Truck/ trailer - loose cargo
Vibration - Tracked vehicles*	MIL-STD-810G. Method: 514.6, Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, tracked vehicles
Vibration - Wheeled Vehicle*	MIL-STD-810G. Method: 514.6, Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles

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CE EMC*	EMC Directive 2004/108/EC.
EMI conducted CE102*	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
EMI radiated RE102*	MIL-STD-461F 2MHz – 18Ghz Navy Mobile & Army
EMS conducted CS114*	MIL-STD-461F 10kHz - 200MHz Army, Ground
EMS conducted CS115*	MIL-STD-461F





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EMS conducted CS116*	MIL-STD-461F 10 kHz to 100 MHz
EMS radiated RS103*	MIL-STD-461F 2MHz to 1GHz Army
ESD*	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003



