

# 19"/2 8p Switch with Mil CONN ESW1101



## Rugged switch in a 19inch2 form factor

The 19"/2 ESW1100 Series gives you eight high performance Ethernet ports in a compact form factor. There's no need to configure the Switch before use – simply plug in your cables and you'll have data streaming instantly.

The switch conforms to the IEEE802.3u standard for smooth integration with other devices and offers alternatives with Power over Ethernet capability and fiber interfaces. The unit is design from the ground up for defence applications, you can count on long-term performance in any environment.

### Built to take a beating

The Switch 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

- Plug and play
- Gigabit Ethernet
- High Temperature Range

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## Connector Interfaces

DC IN (front)	• 1x Power
SERVICE (back)	• 1x RS232 Service
X1-X4 (front)	4 connectors which each has: <ul style="list-style-type: none"> <li>• 2x ETH 1000BASE-T</li> </ul>

## Other Interfaces

1x Status indicator (front)
8x Status indicator (front)

## Technical Specification

LAN	1000BASE-T standard
MIL-STD-1275D	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	10W
Power input	10-32 VDC
Coating and color	Black RAL9005
Cooling	Passively cooled
Dimensions	220x44x221 mm (WxHxD)
Earth point	M6 12mm
Surface treatment chassis	Chromit-Al
Weight	2.5 kg
MTBF	Greater than 318 256 h

## Environmental Specification (\*designed to meet)

Contamination by fluids*	MIL-STD-810G, Method 504.1, Procedure II - Small Systems
Functional Shock - Operating*	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40g 11 ms
High temperature - Operating*	MIL-STD-810G, method 501.5, Procedure II - Operation +55 °C (Optional +71 °C)
High temperature - Operating*	MIL-STD-810G, method 501.5, Procedure II - Operation 71 C
High temperature - Storage*	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
Humidity*	MIL-STD-810G, Method 507.5, Procedure II - Aggravated

	95 ± 4 %rh Ten 24-hour cycles
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 75.2kPa, corresponding to 2,438m (8.000 ft) 17kPa, corresponding to 12192m (40.000 ft)
Low air pressure - operating*	
Low temperature - Operating*	MIL-STD-810G, method 502.5, Procedure II - Operation -40 °C (-40 °F)
Low temperature - Storage*	MIL-STD-810G, method 502.5, Procedure I - Storage -40 C (-40 °F)
Salt fog*	MIL-STD-810G Method: 509.5 5% +- 1% (by weight) Two cycles, 24h wet + 24h dry /cycle
Temperature Shock - Operating*	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature +65 °C (+149 °F) - 40 °C (-40 °F)
Transit drop*	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

## EMC Specification (\*designed to meet)

CE EMC*	EMC Directive 2014/30/EU.
EMI conducted CE102*	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
EMI radiated RE102*	MIL-STD-461F

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2MHz - 18Ghz  
Navy Mobile & Army

<b>EMS conducted CS101*</b>	MIL-STD-461F, Method CS101, conducted susceptibility, power leads CURVE #1 30Hz to 150kHz
<b>EMS conducted CS114*</b>	MIL-STD-461F 10kHz - 200MHz Army, Ground
<b>EMS conducted CS115*</b>	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
<b>EMS radiated RS103*</b>	
<b>ESD*</b>	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003