

# 19inch2 8p Switch ESW1121



## 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 designed from the ground up for defense applications, and 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

- 10-32 VDC
- Passively cooled

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## Connector Interfaces

<b>DC IN (front)</b>	• 1x Power
<b>ETH 1-ETH 8 (front)</b>	8 connectors which each has: <ul style="list-style-type: none"> <li>• 1x ETH 1000BASE-T</li> </ul>
<b>SERVICE (back)</b>	• 1x RS232 Service

## Other Interfaces

1x Status indicator (front)

## Technical Specification

<b>LAN</b>	1000BASE-T standard
<b>MIL-STD-1275D</b>	5.3.2.2 5.3.2.3 5.3.2.4
<b>Polarity protection</b>	Protected against polarization failure on the power input in the voltage range of normal operation.
<b>Power consumption</b>	10W
<b>Power input</b>	10-32 VDC
<b>Coating and color</b>	Dupont AE0305-6603120 (RAL6031)
<b>Cooling</b>	Passively cooled
<b>Dimensions Width and Height</b>	220x44mm (8,66x1,74 inch) (WxH)
<b>Earth point</b>	M6 12mm
<b>Rack Mounting depth</b>	400mm (17,4 inch)
<b>Surface treatment chassis</b>	Chromit-Al
<b>Weight</b>	2 kg (4.5 lbs)

## Environmental Specification (\* designed to meet)

<b>Contamination by fluids*</b>	MIL-STD-810G, Method 504.1, Procedure II - Small Systems
<b>Functional Shock - Operating*</b>	MIL-STD-810G, Method 516.6, Procedure I - Functional Shock. Table 516.6-II, Terminal peak sawtooth pulse, Ground equipment 40g 11 ms
<b>Fungus*</b>	MIL-STD-810G, Method 508.6, Fungus 90 days
<b>High temperature - Operating*</b>	MIL-STD-810G, Method 501.5, Procedure II - Operation +65° C (131° F, optional +71° C)
<b>High temperature - Storage*</b>	MIL-STD-810G, Method 501.5, Procedure I - Storage 71 °C (160 °F)
<b>Humidity*</b>	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\***

MIL-STD-810G, method 500.5, Procedure II - Operation/Air Carriage  
4572m (15,000 ft)

**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)

**Noise level\***

Maximum noise level of 40dB SPL A-weighting @ 1m (3,3 ft) distance

**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  
71 °C (160 °F)  
- 40 °C (-40 °F)

**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 (100 lbs), < 91 cm (36 inch), 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 2004/108/EC.

**EMI conducted CE102\***

MIL-STD-461F, Method CE102

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	BASIC CURVE 10kHz to 10MHz
<b>EMI radiated RE102*</b>	MIL-STD-461F 2MHz - 18Ghz Navy Mobile & Army
<b>EMI radiated RE102 - extended*</b>	MIL-STD-461F 10kHz-2Mhz Navy Mobile & Army
<b>EMS conducted CS114*</b>	MIL-STD-461F 10kHz - 200MHz Army, Ground
<b>EMS conducted CS115*</b>	MIL-STD-461F
<b>EMS conducted CS116*</b>	MIL-STD-461F 10 kHz to 100 MHz
<b>EMS radiated RS103*</b>	MIL-STD-461F 2MHz to 1GHz Army
<b>ESD*</b>	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003