

# 19inch2 Switch ESW1122



## 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

- PoE module
- Vitesse Switch Architecture
- Unmanaged switch
- 10-32 VDC
- Passively cooled

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## Connector Interfaces

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

## Other Interfaces

1x Status indicator (front)

## Technical Specification

LAN 1000BASE-T	1000BASE-T standard
PoE	802.3af, Mode A
Switch architecture	Vitesse Switch Architecture
Switch type	Unmanaged switch
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	No Poe: 15 W PoE: TBD W
Power input	10-32 VDC
Coating and color	Dupont AE0305-6603120 (RAL6031)
Cooling	Passively cooled
Dimensions 1U 200mm	220x44x228 mm (8.66x1.74x9 inch) (WxHxD)
Earth point	M6 12mm
Surface treatment chassis	Chromit-Al
Weight	3 kg (6,7 lbs)
MTBF	Greater than 183297h

## Environmental Specification

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
Fungus	MIL-STD-810G, Method 508.6, Fungus 90 days
High temperature - Operating	MIL-STD-810G, method 501.5, Procedure II - Operation 65 °C (149 °F) (Optional 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** 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

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<b>Vibration - Wheeled Vehicle</b>	MIL-STD-810G, Method: 514.6 , Procedure 1 - General Vibration, Category 20 - Ground vehicles - ground mobile, wheeled vehicles
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## EMC Specification

<b>CE EMC</b>	EMC Directive 2014/30/EU.
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<b>EMI conducted CE102</b>	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
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<b>EMI radiated RE102</b>	MIL-STD-461F 2MHz - 18Ghz Navy Mobile & Army
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<b>EMI radiated RE102 - extended</b>	MIL-STD-461F 10kHz-2Mhz Navy Mobile & Army
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<b>EMS conducted CS114</b>	MIL-STD-461F 10kHz - 200MHz Army, Ground
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<b>EMS conducted CS115</b>	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
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<b>EMS conducted CS116</b>	MIL-STD-461F 10 kHz to 100 MHz
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<b>EMS radiated RS103</b>	MIL-STD-461F 2MHz to 1GHz Army
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<b>ESD</b>	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003
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