

19inch2 Switch ESW1124



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"> • 1x ETH 1000BASE-T with PoE
ETH 9 - ETH 10 (front)	2 connectors which each has: <ul style="list-style-type: none"> • 1x ETH 1000BASE-SX
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:Max 13W No PoE:Typ 11W No PoE:Idle 9W PoE:Max 143W PoE:Typ 54W
Power input	10-32 VDC
Power input	10-32 VDC 110W PoE: 19-32 VDC 110W PoE: 10-18 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 205583h

Environmental Specification

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
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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

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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

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 2MHz - 18Ghz Navy Mobile & Army
EMS conducted CS114	MIL-STD-461F 10kHz - 200MHz Army, Ground
EMS conducted CS115	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
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