

# 19"/2® ESW2262



## Cisco Fiber Switch

The 19"/2 ESW2262 offers two 10G fiber ports and eight 1G ports (four copper and four fiber), with all interfaces on the front for easy access.

### Small form factor

The MilDef 19"/2® form factor is optimized for reduced size, weight, and power (SWaP) to meet industry and military requirements without sacrificing reliability, ruggedness or performance.

### Military-relevant rugged design

MilDef products are designed to operate in extreme environmental conditions and challenging electromagnetic operational scenarios. Operationally proven, MilDef products are actively employed in military operations in over 60 countries.

### Guaranteed performance

MilDef products are designed for the long lifecycles of military programs and come with a lifetime support program to ensure your equipment maintains peak performance for many missions to come.

We also guarantee the availability of spare parts for an additional 5 years after product end-of-life.

### Features

- Based on the Cisco ESS 3300
- Mildef remote management bus
- Management via SNMP, Command Line (Telnet, SSH) and Web
- 12-36 VDC
- Passively cooled

**Connector Interfaces**

<b>SERVICE</b> (back)	<ul style="list-style-type: none"> <li>1x RS232 Service</li> </ul>
<b>X1 DC IN</b> (front)	<ul style="list-style-type: none"> <li>1x Power</li> <li>1x Remote</li> </ul>
<b>X2</b> (front)	<ul style="list-style-type: none"> <li>1x USB 2.0 Console</li> </ul>
<b>X3-X6</b> (front)	4 connectors which each has: <ul style="list-style-type: none"> <li>1x 1000BASE-T</li> </ul>
<b>X7-X8</b> (front)	2 connectors which each has: <ul style="list-style-type: none"> <li>2x ETH 1000BASE-SX</li> </ul>
<b>X9</b> (front)	<ul style="list-style-type: none"> <li>2x ETH 10GBASE-SR</li> </ul>

**Other Interfaces**

1x System button (front)

**Technical Specification**

<b>Blanking</b>	Double-pressing the System button
<b>Built in test (BIT)</b>	Displayed by status LED
<b>Design</b>	Based on the Cisco ESS 3300
<b>MilDef remote management bus</b>	Enable remote host to perform the following on this device: Power on/off (Gracefully shutdown) Zeroization(if unit supports it) Unit state readback (Unit ready) Blanking
<b>Switch features</b>	Management via SNMP, Command Line (Telnet, SSH) and Web IEEE 802.1, 802.3 standard VLAN IDs 256 IGMP Groups 1K ACL (PACL, VACL) EtherChannel IPv6 SNMP VTP v2, v3 802.1x multidomain authentication MIB SNMP v3 IGMP v1, v2, v3 NTP, PTP* *not on Te1/1 and Te1/2 ports
<b>Zeroization</b>	Zeroization by pressing the system button for 12 sec
<b>Electronics ground to chassis</b>	Isolated
<b>MIL-STD-1275D</b>	5.3.2.2 5.3.2.3 5.3.2.4

**Polarity protection**

Protected against incorrect polarity connection on the power input within the normal operating voltage range

<b>Power consumption</b>	21 W
<b>Power input</b>	12-36 VDC
<b>Power to chassis</b>	Isolated
<b>Power to electronics ground</b>	Isolated
<b>Chassis material</b>	Aluminum
<b>Coating and color</b>	AE0305-7703520 Axalta (RAL 7035)
<b>Cooling</b>	Passively cooled
<b>Dimensions width and height</b>	220 x 43.4 mm (8.66 x 1.71 in) (WxH)
<b>Earth point</b>	M6 12 mm
<b>Surface treatment chassis</b>	Chromit-Al
<b>Weight</b>	2.7 kg (6 lbs)
<b>MTBF</b>	> 200,000 h
<b>CE</b>	Compliant

**Environmental Specification**

<b>Functional shock - Operating</b>	MIL-STD-810H, Method 516.8, Procedure I - Functional shock. Table 516.8-IV, Terminal peak sawtooth pulse, Ground material 40 g 11 ms
<b>High temperature - Operating</b>	MIL-STD-810H, Method 501.7, Procedure II - Operation 65 °C (149 °F) (Optional 71 °C (160 °))
<b>High temperature - Storage</b>	MIL-STD-810H, Method 501.7, Procedure I - Storage 71 °C (160 °F)
<b>Humidity</b>	MIL-STD-810H, Method 507.6, Procedure II - Aggravated 95 ± 4% RH Ten 24-hour cycles
<b>IP Class (Solid Particle Protection)</b>	IP Class 6X
<b>IP Class (Water)</b>	IP Class X7
<b>Low air pressure - Rapid decompression</b>	MIL-STD-810H, Method 500.6, Procedure III - Rapid decompression 2,438 m (8,000 ft) 12,192 m (40,000 ft)
<b>Low air pressure - Operating</b>	MIL-STD-810H, Method 500.6, Procedure II - Operation/air carriage 4,572 m (15,000 ft)
<b>Low temperature - Operating</b>	MIL-STD-810H, Method 502.7, Procedure II - Operation -40 °C (-40 °F)

<b>Low temperature - Storage</b>	MIL-STD-810H, Method 502.7, Procedure I - Storage -40 °C (-40 °F)
<b>Noise level</b>	Maximum noise level of 40 dB SPL A-weighting at 1 m (3.3 ft) distance
<b>Salt fog</b>	MIL-STD-810H, Method 509.7 5 ± 1% (by weight) Two cycles, 24 h wet + 24 h dry / cycle
<b>Temperature shock - Operating</b>	MIL-STD 810H, Method 503.7, Procedure I-C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °F) -40 °C (-40 °F)
<b>Vibration - Helicopter</b>	MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 14 - Rotary wing aircraft - helicopter
<b>Vibration - Loose cargo</b>	MIL-STD-810H, Method 514.8, Procedure II - Loose cargo transportation, Category 5 - Truck/trailer - loose cargo
<b>Vibration - Tracked vehicle</b>	MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 20 - Ground vehicle - ground mobile, Tracked vehicle
<b>Vibration - Wheeled vehicle</b>	MIL-STD-810H, Method 514.8, Procedure I - General vibration, Category 20 - Ground vehicle - ground mobile, Wheeled vehicle

## EMC Specification

<b>EMI conducted CE102</b>	MIL-STD-461F, Method CE102, Conducted emissions, power leads BASIC CURVE 10 kHz - 10 MHz
<b>EMI radiated RE102</b>	MIL-STD-461F, Method RE102, Radiated emissions, electric field Navy Mobile & Army 2 MHz - 18 GHz
<b>EMS conducted CS101</b>	MIL-STD-461F, Method CS101, Conducted susceptibility, power leads CURVE #1 30 Hz - 150 kHz
<b>EMS conducted CS114</b>	MIL-STD-461F, Method CS114, Conducted bulk susceptibility Army, Ground 10 kHz - 200 MHz
<b>EMS conducted CS115</b>	MIL-STD-461F, Method CS115, Conducted susceptibility, bulk cable injection, impulse excitation

<b>EMS conducted CS116</b>	MIL-STD-461F, Method CS116, Conducted susceptibility, damped sinusoidal transients, cables and power leads 10 kHz - 100 MHz
<b>EMS radiated RS103</b>	MIL-STD-461F, Method RS103, Radiated susceptibility, electric field Army 2 MHz - 1 GHz