19"/2 14p Cisco Switch ESW2161

19"/2 14-p Cisco based Switch

The 19"/2 14-p Switch gives you fourteen Ethernet ports in a compact form factor. The IEEE802.3u standards for smooth integration with other devices. With a rugged case that has a protection rating of IP65 you can count on it in any environment.

Mounting

The 19"/2 standard enables flexible mounting with customized brackets. The unit can be mounted in a 19" rack, half racks, directly to a surface and in any angle.

Built to take a beating

The Switch is made to withstand the harshest conditions over the long haul. It features aluminium casing, rugged MIL connectors for easy integration and will operate down to -20 °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

- Cisco 3560CX Switch Architecture
- 12pcs 1000BASE-T
- 2pcs 100BASE-FX
- Passively cooled

ESW2161 Issue 01, 2020-07-27.

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Connector Interfaces

CONSOLE (front)	• 1x Serial console
DC IN (back)	• 1x Power
G 0/1 - G 0/12 (front)	12 connectors which each has: • 1x ETH 1000BASE-T
G 0/15, G 0/16 (front)	2 connectors which each has: • 1x ETH 100BASE-FX
SERVICE (front)	• 1x RS232 Service

Other Interfaces

14x Indicator (front)

1x System Button (front)

Technical Specification

Blanking	Enable/disable all externally visible indicators from emitting light via the "blanking command"
Blanking	Double-pressing the System button
ETH POE power delivery	802.3at, Type 2
LAN 1000BASE-T	1000BASE-T standard
LAN 100BASE-FX	100BASE FX standard with MM 1300nm OM2 fiber
Switch Architecture	Cisco 3560CX Switch Architecture including 12pcs 1000BASE-T and 2pcs 100BASE-FX
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	180W when powered in the range 18-32 VDC 100W when powered in the range 12-18 VDC
Power input	12-32 VDC
Coating and color	AE03056600620 (RAL6006)
Cooling	Passively cooled
Dimensions Width and Height	220x88mm (8,7x3,5 inch) (WxH)
Earth point	M8 12mm
Rack Mounting depth	400 mm (17.4 inch)
Rubber feet	Rubber feet on the bottom
Surface treatment chassis	Chromit-Al
Weight	Maximum 6.1 kg
MTBF	144329 h

Environmental Specification

Dust	MIL-STD 810G, method 510.5 Procedure I - Blowing dust
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 (131 °F)
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 2438m (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 -20 °C (-4 °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 at 1m (3.3 ft) distance
Salt fog	MIL-STD-810G Method: 509.5 5% +- 1% (by weight) Two cycles, 24h wet + 24h dry /cycle
Sand	MIL-STD 810G, Method 510.5, Procedure II - Blowing sand.
Temperature Shock - Operating	MIL-STD 810G, method 503.5 procedures I - C, - Multi-cycle shocks from constant extreme temperature 55 °C (131 °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

CE EMI	EN61000-6-3:2007
CE EMS	EN55032:2015
EMI conducted CE102	MIL-STD-461F, Method CE102 BASIC CURVE 10kHz to 10MHz
EMI radiated RE102	MIL-STD-461F Navy Mobille & Army 2MHz - 18GHz
EMS conducted CS101	MIL-STD-461F, Method CS101, conducted suceptibility, power leads. CURVE #1 30Hz to 150kHz
EMS conducted CS114	MIL-STD-461F Army, Ground 10kHz - 200MHz
EMS conducted CS115	MIL-STD-461F Conducted susceptibility, bulk cable injection, impulse excitation
EMS conducted CS116	MIL-STD-461F 10kHz - 100MHz
EMS radiated RS103	MIL-STD-461F 2MHz to 40GHz Army
ESD	EN61000-4-2:2009 Level 3 EN50024:1998 Performance criteria B + A1:2001 + A2:2003