19”/2® 17-p Switch ESW442

The 19”/2® 17-port Switch ESW442 is a powerful managed switch which features dual 1 Gbps fiber uplinks and fifteen 1 Gbps access ports. An ideal solution for demanding high speed networks, including data, video, and voice services. It supports both layer 2 and layer 3 functionality and can be implemented anywhere high speed LAN and WAN connectivity may be required.

Built to take a beating

The switch is built from the ground up to withstand the harshest conditions over the long haul. It has an Aluminium casing and it runs on ruggedized hardware which makes it suitable for harsh environments. It is a sealed unit that requires no active cooling and provides interfaces over military-grade circular connectors. The unit features a military-grade power supply supporting ground/marine (MIL-STD-1275D) vehicle voltage input. On top of this toughness, we offer lifetime support to ensure that the switch maintains its performance for many years to come.

Mounting

All 19”/2 units can be mounted together in several different ways:

- One 19”/2 unit can be mounted in a 19” rack
- Two 19”/2 units can be mounted together in a 19” rack
- Two or more devices can also be stacked on top of each other

19”/2® 17-p Switch
ESW442

Technical Specification	
Description	Ethernet switch with 2x 1Gbit fiber and 15x 1Gbit copper
Bridging	802.1q VLAN, 802.1d STP
Routing support	Yes (static routing)
Backbone Speed	48 Gbps
Interface (front)	9 x LAN RJ45 (10/100/1000 Mbps) 1 x Console Serial
Interface (back)	6 x LAN RJ45(10/100/1000 Mbps) 2 x LAN Fiber Tyco PRO BEAM® mini, Single Mode (1Gbps, 1310 nm) 1 x Service port (Binder) 1 x DC in, 10-32V (ITS)
Power Consumption	≤ 35W
Transient power protection	Designed to meet MIL-STD-1275D
Case	Aluminium
Dimensions	220 x 311 x 44 mm (W x D x H)
Weight	2.8kg
Certification	Designed to meet IP54, MIL-STD-810F, MIL-STD-461F and MIL-STD-1275D
Other	No fans

Designed to meet:

MIL-STD-810F	Operating	Storage
Altitude Method 500.4, *(procedure II,III)*	4572 m (15000 ft)	Rapid decompression 12192 m (40000 ft)
Humidity Method 507.4	Five 48 h test cycles	-
Shock Method 516.5, *(procedure I, IV)*	40 G, 11 ms (Terminal-peak saw tooth shock pulse)	122 cm (26 drops)*
Salt fog Method 509.4, *(Procedure I)*	-	Salt concentration of 5 % +-1 % (48 h wet +48 h dry/cycle)
Temperature Method 501.4 & Method 502.4, *(procedure I, II)*	-40 °C to 55 °C (-40 °F to 131 °F)	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature shock Method 503.4 (procedure I)	-40 °C to +55 °C (-40 °F to +131 °F)	-
Vibration Method 514.5		
- Category 2	-	√
- Category 14	√	-
- Category 20 a & b	√	-

** Only with optional Peli Case*

Designed to meet:

MIL-STD-461F	Limitation	Threshold
EMI radiated Method RE102	10 kHz to 18 GHz	Navy Mobile & Army
EMI radiated Method RS103	2 MHz to 1 GHz	Army
EMI conducted Method CE102	10 kHz to 10 Mhz	Basic Curve
EMI conducted Method CS101	30Hz to 150 kHz	Curve #1
EMI conducted Method CS114	10 kHz to 200 MHz	Army
EMI conducted Method CS115	Tested according to standard	Army
EMI conducted Method CS116	10 kHz to 100 MHz	Army

ISO 9001: Certificate No. FM68727
ISO 14001: Certificate No. EMS554313

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