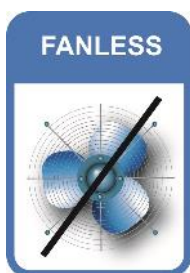


SWD-H-16TX



Features

- Ethernet Layer 2
- 16 x 10/100BaseT ports
- Hardened device support -40 to +75°C (-40°F to 167°F) operating temperature range.
- Redundant power inputs (12 -48VDC) with Terminal block and DC jack (12VDC)
- Alarms for power failure by relay output
- NEMA TS1 & TS2
- IEC61000-6-2 EMC

Ethernet switch:

- 10/100Mbps, Full/Half duplex, Auto-Negotiation, Auto-MDI/MDIX

Unmanaged Hardened Ethernet Switch

The SWD-H-16X is a Layer 2 switch for high temperature and industrial environment. SWD-H-16TX are used in transportation domain, mainly for traffic control devices connection .

The SWD-H-16TX is an hardened switch in IP30 aluminum case supporting -40 °C to 75 °C (-40 °F to 167 °F) operating temperature range. All devices are tested during 72hours of the production at -40 °C to 85 °C (-40 °F to 185 °F).

This switch complies with NEMA TS1 & TS2 Environmental requirements for Traffic control equipment or ITS in USA.

The switch complies with IEC61000-6-2 EMC Generic standard immunity for industrial environment.

This switch include 16 standard Ethernet ports.



Installation type : Din Rail
(Mounting kit is included)

ORDERING INFORMATION

SWD-H-16TX

Unmanaged Hardened Ethernet switch 16 ports 10/100 BaseT, double power supply



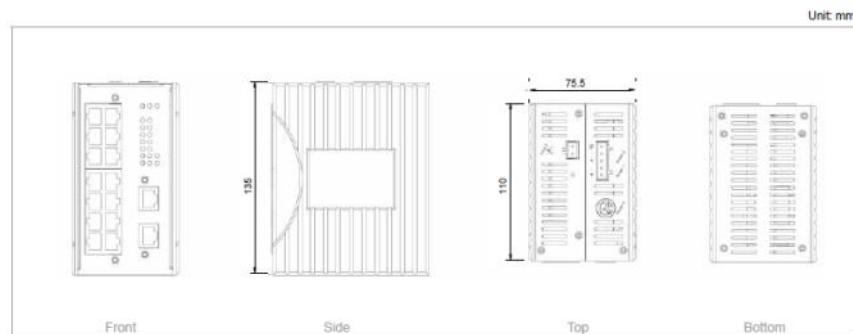
Hardened 10/100BaseT

SPECIFICATIONS

Technology	
Standards	• IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3x
Forward and Filtering Rate	• 14,880pps for 10Mbps • 148,810pps for 100Mbps
Packet Buffer Memory	• 1.625M bits
Processing Type	• Store-and-Forward • Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	• 4096 MAC addresses
Latency	• Less than 10µs
Power	
Input	• Input Voltage: 12 to 48VDC (Terminal Block) 12VDC (DC Jack)
Power Consumption	• 7.4W Max. 0.6A @ 12VDC, 0.3A @ 24VDC, 0.15A @ 48VDC
Overload Current Protection	• Present
Mechanical	
Casing	• Aluminum case • IP30
Dimensions	• 75.5mm (W) x 110mm (D) x 135mm (H) (2.98" (W) x 4.33" (D) x 5.31" (H))
Weight	• 0.87Kg (1.92lbs.)
Installation	• DIN-Rail (Top hat type 35mm), Panel, Rack Mounting
Interface	
Ethernet Port	• 10/100BASE-TX: 16, 15 or 14 ports • 100BASE-FX: 0, 1 or 2 ports
LED Indicators	• Per Unit: Power Status (Power 1, Power 2, Power 3) • Per Port: 10/100TX, 100FX: Link/Activity
Alarm Contact	• One relay output with current 1A @ 24VDC

Environment	
Operating Temperature	• -40°C to 75°C (-40°F to 167°F) Tested @ -40°C to 85°C (-40°F to 185°F)
Storage Temperature	• -40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	• 5% to 95% (non-condensing)
Regulatory Approvals	
ISO	• Manufactured in an ISO9001 facility
Safety	• UL508
EMI	• FCC Part 15, Class A, VCCI • EN61000-6-4 - EN55022 - EN61000-3-2 - EN61000-3-3
EMS	• EN61000-6-2 - EN61000-4-2 (ESD Standards) Contact: + / - 6KV Air: + / - 8KV - EN61000-4-3 (Radiated RFI Standards) 10V/m, 80 to 1000MHz; 80% AM 3V/m, 1400 to 2000MHz; 80% AM 1V/m, 2000 to 2700MHz; 80% AM - EN61000-4-4 (Burst Standards) Signal Ports: + / - 4KV D.C. Power Ports: + / - 4KV - EN61000-4-5 (Surge Standards) Signal Ports: + / - 1KV; Line-to-Line D.C. Power Ports: + / - 0.5KV; Line-to-Earth - EN61000-4-6 (Induced RFI Standards) Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM - EN61000-4-8 (Magnetic Field Standards) 30A/m @ 50, 60Hz
Environmental Test Compliance	• IEC60068-2-6 Fc (Vibration Resistance) 5g @ 10 - 150KHz, Amplitude 0.35mm (Operation/Storage/Transport) • IEC60068-2-27 Ea (Shock) 25g @ 11ms (Half-Sine Shock Pulse; Operation) 50g @ 11ms (Half-Sine Shock Pulse; Storage/Transport) • FED STD 101C Method 5007.1 (Free fall w/ package) - Tested with Cross Weight and Drop High standard table

DIAGRAMS



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