

SWMD-HT-8TX-2GSF

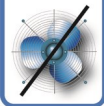
Features



α -RING



FANLESS



EN50121-4



Value

- Provides flexibility of 8-port 10/100BASE-TX/FX/BX/SFP plus 2-port Gigabit-TX/SX/LX/BX/SFP
- Complies with EN50121-4 Environmental requirement for Railway applications
- Wide temp range for extreme environments

Certified by NEMA TS2 Environmental requirements for Traffic control equipment

Supports α -ring and RSTP/MSTP/STP for Ethernet redundancy

IP Multicast Filtering through IGMP Snooping V1, V2 & V3

Supports port-based VLAN and IEEE802.1Q VLAN Tagging and GVRP

IEEE802.1p QoS with four priority queues

MAC-based trunking and LACP

IEEE802.1x Security

Bandwidth Rate Control

Per-port programmable MAC address locking

Up to 24 Static Secure MAC addresses per port

Port mirroring

NTP synchronization

DHCP Client/Server

RS-232 console, Telnet, SNMP V1, V2c & V3, RMON, Web Browser, and TFTP Management

1000Mbps-Full-duplex, 10/100Mbps-Full/Half-duplex, Auto-negotiation, Auto-MDI/MDIX

Full wire-speed forwarding rate
-40°C to 75°C (-40°F to 167°F) operating temperature range, tested for functional operation @ -40°C to 85°C (-40°F to 185°F)

Managed Hardened 8-port
10/100BASE and 2-port Gigabit
Ethernet Switch with SFP option

SPECIFICATIONS

Technology	
Standards	<ul style="list-style-type: none"> IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX/100BASE-FX, IEEE802.3ab 1000BASE-T, IEEE802.3z 1000BASE-SX/1000BASE-LX, IEEE802.3x, IEEE802.1p, IEEE802.1Q, IEEE802.1w, IEEE802.1x
Forward and Filtering Rate	<ul style="list-style-type: none"> 14,880pps for 10Mbps 148,810pps for 100Mbps 1,488,100pps for 1000Mbps
Packet Buffer Memory	<ul style="list-style-type: none"> 2M bits
Processing Type	<ul style="list-style-type: none"> Store-and-Forward Half-duplex back-pressure and IEEE802.3x full-duplex flow control
Address Table Size	<ul style="list-style-type: none"> 8192 MAC addresses
Power	
Input	<ul style="list-style-type: none"> Input Voltage: 12 to 48VDC (Terminal Block); 12VDC (DC Jack)
Power Consumption	<ul style="list-style-type: none"> 11W Max. 0.92A @ 12VDC, 0.46A @ 24VDC
Overload Current Protection	<ul style="list-style-type: none"> Present
Reverse Polarity Protection	<ul style="list-style-type: none"> Present
Mechanical	
Casing	<ul style="list-style-type: none"> Aluminum case IP30
Dimensions	<ul style="list-style-type: none"> 60mm (W) x 125mm (D) x 145mm (H) (2.36" (W) x 4.92" (D) x 5.7" (H))
Weight	<ul style="list-style-type: none"> 1.1Kg (2.42lbs.)
Installation	<ul style="list-style-type: none"> DIN-Rail (Top hat type35mm), Rack Mount, Wall Mount
Interface	
Ethernet Port	<ul style="list-style-type: none"> 10/100BASE-TX: 8, 6 or 4 port 100BASE-FX: 0 to 4 ports Gigabit: 0, 1 or 2 ports
Console Port	<ul style="list-style-type: none"> Port: One DB9 RS-232 port
LED Indicators	<ul style="list-style-type: none"> Per Unit: Power Status (Power 1, Power 2, Power 3) Per Port: 10/100TX, 100FX/ SFP: Link/Activity, Speed 10/100/1000TX, 1000SX/LX/ SFP: Link/Activity, Speed
Alarm Contact	<ul style="list-style-type: none"> one relay output with current 1A @ 24VDC

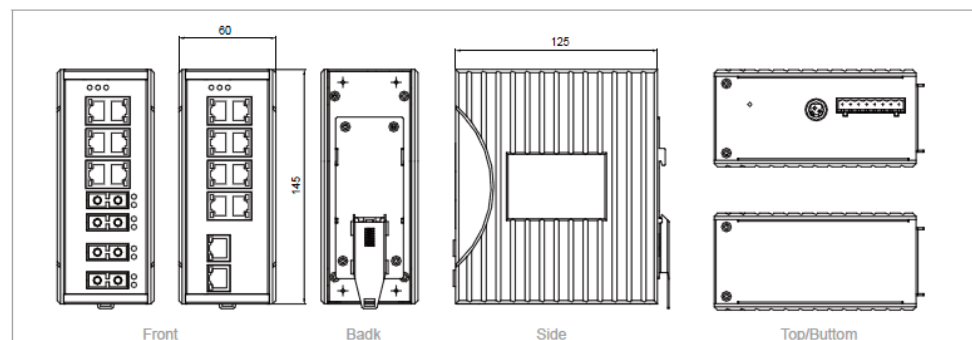
Environment	
Operating Temperature	<ul style="list-style-type: none"> -40°C to 75°C (-40°F to 167°F) Tested @ -40°C to 85°C (-40°F to 185°F)
Storage Temperature	<ul style="list-style-type: none"> -40°C to 85°C (-40°F to 185°F)
Ambient Relative Humidity	<ul style="list-style-type: none"> 5% to 95% (non-condensing)
Regulatory Approvals	
ISO	<ul style="list-style-type: none"> Manufactured in an ISO9001 facility
Safety	<ul style="list-style-type: none"> UL508
EMI	<ul style="list-style-type: none"> FCC Part 15, Class A EN61000-6-4 <ul style="list-style-type: none"> EN55022 EN61000-3-2 EN61000-3-3
EMS	<ul style="list-style-type: none"> EN61000-6-2 <ul style="list-style-type: none"> EN61000-4-2 (ESD Standards) <ul style="list-style-type: none"> Contact: +/- 6KV Air: +/- 8KV EN61000-4-3 (Radiated RFI Standards) <ul style="list-style-type: none"> 10V/m, 80 to 1000MHz; 80% AM EN61000-4-4 (Burst Standards) <ul style="list-style-type: none"> Signal Ports: +/- 4KV D.C. Power Ports: +/- 4KV EN61000-4-5 (Surge Standards) <ul style="list-style-type: none"> Signal Ports: +/- 2KV; Line-to-Earth D.C. Power Ports: +/- 2KV; Line-to-Earth EN61000-4-6 (Induced RFI Standards) <ul style="list-style-type: none"> Signal Ports: 10Vrms @ 0.15 - 80MHz; 80% AM D.C. Power Ports: 10Vrms @ 0.15 - 80MHz; 80% AM EN61000-4-8 (Magnetic Field Standards) <ul style="list-style-type: none"> 30A/m @ 50, 60Hz
Environmental Test Compliance	<ul style="list-style-type: none"> IEC60068-2-6 Fc (Vibration Resistance) <ul style="list-style-type: none"> 5g @ 10 - 150Hz, Amplitude 0.35mm (Operation/Storage/Transport) IEC60068-2-27 Ea (Shock) <ul style="list-style-type: none"> 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) <ul style="list-style-type: none"> -Tested with Cross Weight and Drop High standard table



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