

IP68 10*1GE Copper EN50155 Unmanaged PoE++ Industrial Switch

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10*1GE Copper EN50155 Unmanaged PoE Industrial Switch with Voltage Booster Size: 186 x 121 x 30mm

Owerview

MES-1310-M12-V9-36 is a 10 port fully gigabit unmanaged industrial Ethernet switch designed specifically for railway transportation. This product meets the industry standard requirements of EN50155 and the IEEE 802.3af/at/bt protocol standard. It has the boost function of DC12V~36V wide voltage input and supports POE, POE+, and POE++ functions. The Ethernet interface adopts a sturdy and reliable M12 format, suitable for scenarios with severe vibration and impact. This product provides 10 * 1GE M12 ports. The operating temperature range of this series of switches is -40 °C to+80 °C, with an IP68 rated housing and LED indicator lights. It is a plug and play industrial grade device. With its excellent waterproofing and durability, it can adapt to various harsh environments and provide reliable and convenient solutions for users to connect their Ethernet devices. Adopting wall mounted installation method can meet the needs of different application scenarios.

The hardware adopts a fan-less, low power consumption, wide temperature and wide voltage design. After undergoing rigorous testing in compliance with industry standards, it can adapt to industrial site environments with strict EMC requirements and is widely applicable to on-board PIS, train control, CCTV, video surveillance, and other rail transit subsystems.

Features

10*10/100/1000Base-T M12 copper ports

8 downlink Gigabit copper ports support PoE/PoE+/PoE++, compatible with IEEE 802.3af/at/bt standards Supports 802.3af POE, IEEE802.3 at/POE+, IEEE802.3bt/POE++ protocol, with a maximum of 90W per port Lightning surge Protection: 6KV common mode/2KV differential mode for network port, 4KV common mode/2KV differential mode for power

Electrostatic protection: 4KV touch discharge, 8KV air discharge

Can detect the PoE mode of the powered device and can intelligently manage the PD, such as Qos for POE port.

Can work in the temperature range -40°C $^{\sim}$ +80°C, there is also the ultra low working temperature version which allows working temperature up to -60°C





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Specifications

10 * 10/100/1000 Base-T(X) M12 X coded female copper Ethernet ports
Automatic detection, full/half duplex MDI/MDI-X self adaptive
1 * M12 A coded male power input port, dual power redundancy
IEEE 802.3: 10Base-T Ethernet
IEEE 802.3u: 100Base-TX Fast Ethernet
IEEE 802.3ab: 1000Base-T Gigabit Ethernet
EN50155
300,000 hours
3 years
FCC Part 15 Subpart B Class A,EN 55022 Class A
IEC(EN)61000-4-2(ESD): ± 8kV touch discharge, ± 15kV air discharge
IEC(EN)61000-4-3(RS): 10V/m(80~1000MHz)
IEC(EN)61000-4-4(EFT) : power cable: ±4kV
Data cable: ±2kV
IEC(EN)61000-4-5(Surge) : power cable: ±2kV CM/±4kV DM
Data cable: ±2kV CM/±6kV DM;
IEC(EN)61000-4-6(Radio frequency conduction):
3V(10kHz~150kHz),10V(150kHz~80MHz)
IEC(EN)61000-4-16(Common-mode conduction) : 30V cont. 300V,1s
IEC(EN)61000-4-8
IEC 60068-2-27
IEC 60068-2-32
IEC 60068-2-6
r's
Chara and familiard
Store and forward
200
20G
16K
<10μs
2 Mbit
<5W





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Working Temperature		
Working	-40~80°C(-40~176°F)	
Temperature	-40 00 C(-40 1/0 F)	
Storage	-40~85°C(-40~185°F)	
Temperature	-40 65 C(-40 165 I)	
Relative Humidity	5%~95% without condensation	
PoE Features		
PoE Standards	IEEE802.3af/ IEEE802.3at/ IEEE802.3bt	
	8 ports supports PoE++, automatically detects the standards of devices like	
	IEEE802.3af , IEEE802.3at and IEEE802.3bt	
	IEEE 802.3af: max. 15.4W/port	
	IEEE 802.3at: max. 30W/port,	
	IEEE 802.3bt: max. 90W/port,	
Output Power	Max. total output power for PD:	
	240W@36V input (normal temp.);	
	120W@24V input (normal temp.);	
	60W@12V input (normal temp.)	
DOE Deignitus	When power > max. Power (different input has a max. Power in accordance with that	
POE Priority	input), POE priority: port No.8>port No.7>port No.6 and so on	
Power Parameters		
Input Voltage	DC12~36V	
Power Protection	Supports dual power supply redundancy	
	Supports reverse polarity protection	
Power Cable	Suggest to adopt the M12 cable with rated current≥6A, for wire order, please refer	
Requirement	to the PVC label on the switch.	
Mechanical Feature	S	
Shell	IP68, aluminum enclosure	
Installation	Wall mounted	
Method		
Cooling Method	Natural cooling, fanless	
Weight	1.13kg	
Size	186 x 121 x 30mm	
LED Indication		
Power Indicator	PWR	
Interface Indicator	Copper ports(Link/ACT)	

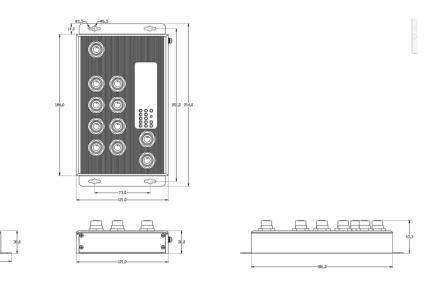




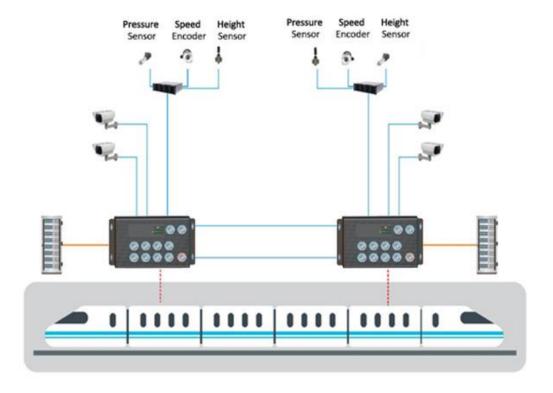
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Outlook and Dimension

Size: 186 x 121 x 30mm



Application Diagram







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Ordering Information

Model	Description
MES-1310-M12-V9-36	10* 10/100/1000BASE-T M12 copper ports, unmanaged type, PoE++, DC12~36V input, including M12 aviation connector, industrial grade wall mounted, IP68, aluminum shell Working Temperature: $-40 \sim 80^{\circ}$ C

