

IPES-0008-4-M12

8 10/100TX IP41 rated Industrial Switch
w/M12 connectors and 4 PoE injectors

- Provides up to 15.4 watts at 24~48 VDC per PoE port
- EN50155/50121-3-2/50121-4 and NEMA TS2 compliant*
- Provides M12 connector with IP41 rated protection
- Wide operating temperature from -40 °C to 75 °C



OVERVIEW

Lantech IPES-0008-4-M12 is an 8 10/100 Base-TX with M12-connector Unmanaged Industrial Switch for IP41 rated protection, which meets the high reliability requirements demanded by industrial applications. It provides 4 PoE injectors and fully complies with IEEE802.3af PoE standard, providing 15.4W per PoE port at 24~48VDC power input.

The IPES-0008-4-M12 is designed to meet with critical network environment and has passed harsh environmental testing to

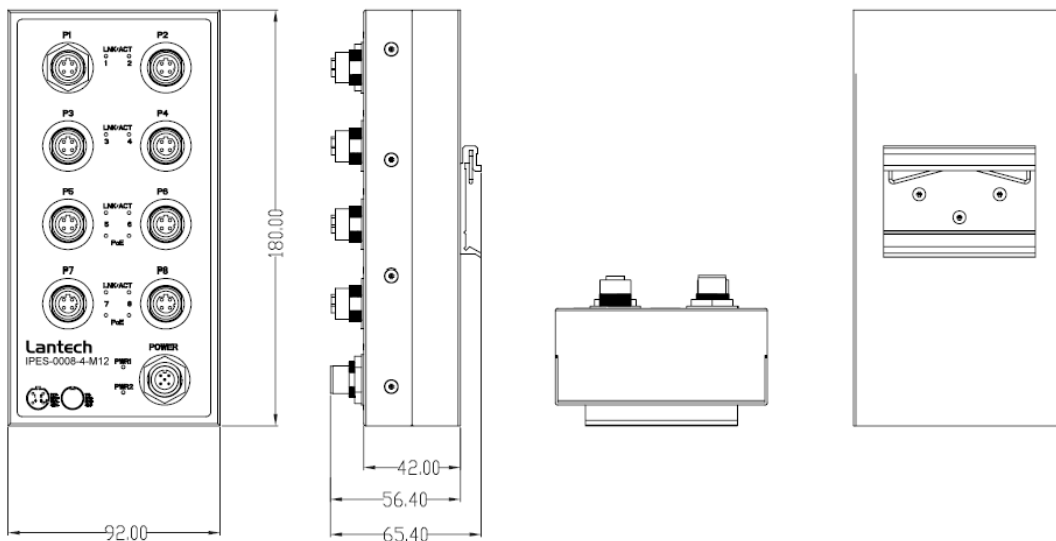
comply with Industrial EMI and Safety standards. It also passed stability testing such as Free fall, Shock, and Vibration. For a greater flexibility in application the IPES-0008-4-M12 supports an extended operating temperature range from -40°C to 75°C.

The IPES-0008-4-M12 is compliant with EN50155/ 50121-3-2/ 50121-4* (railway applications), NEMA TS2* (Traffic Control System) and e-Mark*, making the switch suitable for a variety of industrial applications.

FEATURES & BENEFITS

- 8 10/100TX Unmanaged Industrial Switch with M12 connectors and IP41 rated protection
- 4 PoE injectors, comply with IEEE802.3af PoE standard
- Redundant Power Design with DC24~48V input
- Back-plane (Switching Fabric): 1.6 Gbps
- Packet throughput ability: 23.8 Mpps @64bytes
- Packet Buffer: 448Kbits
- 2K MAC address table
- Wide Operating Temperature (-40°C ~75°C)
- Din rail and wall mount design
- EN50155/50121-3-2/50121-4/NEMA TS2 compliant*
- e-Mark compliant*

DIMENSIONS (unit=mm)



Preliminary Datasheet Version 0.1

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SPECIFICATIONS

Hardware Specification		Case Dimension	IP41, 92mm (W) x 180mm (H) x 42mm (D)
IEEE Standard	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-T Ethernet IEEE802.3x Flow Control and Back Pressure IEEE802.3af PoE Standard	Installation	Din Rail, Wall Mount Design
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	EMC	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8 (Magnetic Field), CE EN61000-6-2, CE EN61000-6-4
Packet Buffer	448Kbits	Safety	UL/cUL 60950
Mac Address	2K MAC address table	Stability Testing	IEC61373 (Shock), IEC60068-2-32 (Free fall), IEC61373 (Vibration)
Connector	10/100T: 8 x M12, 4-pole D-coded, Female with auto MDI/MDI-X function Power connector: 1 x M12, 5-pole A-coded, Male	Standard	EN50155 Compliant* EN50121-3-2 Compliant* EN50121-4 Compliant* NEMA TS2 Compliant* e-Mark*
Protocol	CSMA/CD	MTBF	348,384 hours
LED	Per unit: Power 1 (Green), Power 2 (Green), Ethernet: Link/Activity (Green)	Warranty	5 years
Power Supply	DC 24~48V, Redundant power with polarity reverse protect function	*Pending	
Power Consumption	72 Watts max. @ 48V _{DC}		
PoE Power Output	15.4 Watts max. @ 24~48 V _{DC}		
Operating Humidity	5% to 95% (Non-condensing)		
Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)		
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)		

ORDERING INFORMATION

- **IPES-0008-4-M12.....P/N: 8360-540**
 8 10/100TX IP41 rated Industrial Switch w/M12 connectors and 4 PoE injectors

OPTIONAL ACCESSORIES

DIN Rail Power

- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1120-48F** 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C

M12 Accessories

- **8360-520** 1.5 meters M12 - RJ45, 4-pin D-coded M12 connector with Cat-5E UTP Ethernet cable
- **8360-521** 1.5 meters M12 to 5pin, 5 pin A-coded M12 connector with power cable

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