

IPES-0008A (IP67/IP43)

8 10/100TX PoE at/af Industrial Switch

- EN50155/50121-3-2/50121-4 compliance
- Provides M12 connector with IP67 / IP43 rated protection
- IEEE802.3at/af up to 30W PoE output
- 12V power input boost to 48V output
- Optional 72V input steps down to 48V output for IEEE 802.3at/af max.80W
- Wide Operating Temperature from -40°C to 75°C
- Wide range redundant power inputs



IP67 model



IP43 model

OVERVIEW

Lantech IPES-0008A (IP67/IP43) is an 8 10/100 Base-TX with M12-connector unmanaged industrial switch for IP67 or IP43 rated protection, which meets the high reliability requirements demanded by industrial rolling stock applications.

The IPES-0008A (IP67/IP43) supports IEEE802.3at/af standard which can feed HI-power up to 30W at each PoE port for big power consumption devices like PTZ IP camera, High power wireless AP etc. The IPES-0008A-12V is able to take 12/24V input and boost to 48V output for PoE feeding in vehicle use with IEEE802.3at/af standard up to 30W per PoE port with maximum 80W output. 72V/110V input model can feed 48V PoE at max 80W.

The IPES-0008A (IP67/IP43) is designed to meet with critical

network environment with IP67/43 enclosure and M12 connectors for protection against dust and water. IP67 model can be immersed 1 meter under water for 30 minutes long, so it is the best to place in the highly damp and moisture area in the train, vehicle or rail-side. Both have passed harsh environmental testing to comply with Industrial EMI and Safety standards as well as stability testing such as Free fall, Shock, and Vibration. For a greater flexibility in application the IPES-0008A (IP67/IP43) supports an extended operating temperature range from -40°C to 75°C.

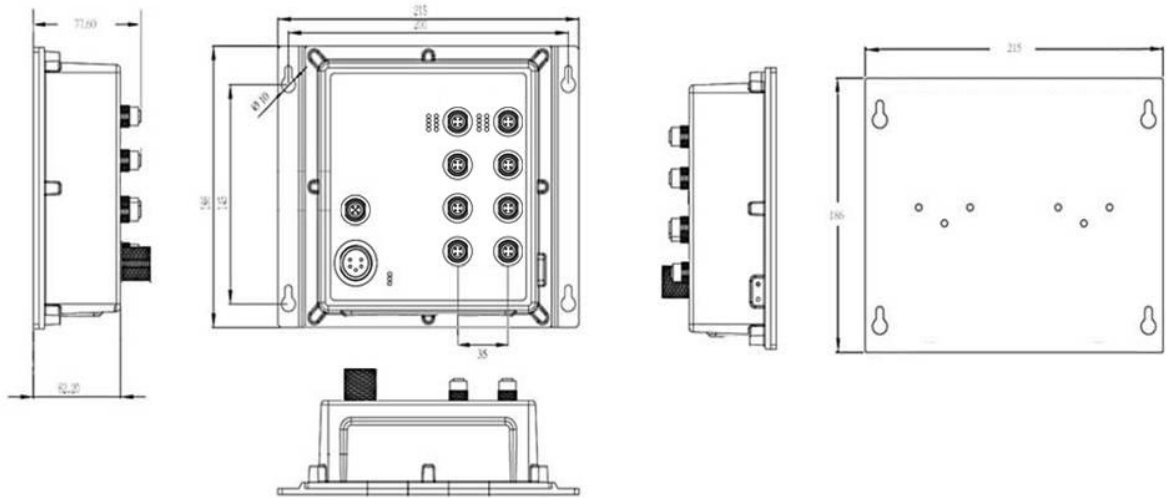
The IPES-0008A (IP67/IP43) is compliant with EN50155/50121-3-2/ 50121-4 (railway applications), Fire&Smoke and E-Mark, making the switch suitable for various industrial rolling stock applications.

FEATURES & BENEFITS

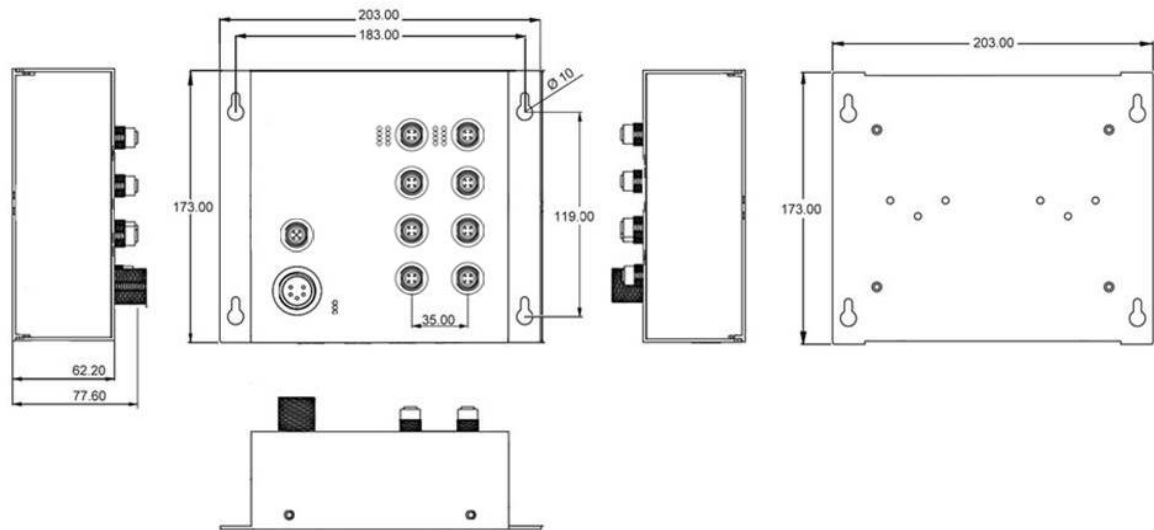
- 8 10/100TX Unmanaged Industrial Switch with M12 connectors and IP67/43 rated protection
- Supports IEEE802.3at/af feeding power up to 30W per PoE port at 12/24/48VDC
- Accept input voltage 12V and boost to 48V for PoE 802.3at/af maximum 80W output
- Redundant Power Design with wide DC12/24/48V
- Back-plane (Switching Fabric): 1.6 Gbps
- 8K MAC address table
- Wide Operating Temperature (-40°C ~75°C)
- Din rail** and wall mount design
- EN50155/50121-3-2/50121-4 and Fire&Smoke compliant
- E-Mark compliant
- Optional 72V model can accept dual 72V power input and feed 48V for PoE at/af at max 80W
- Optional 110V model can accept dual 110V power input and feed 48V for PoE at/af at max 80W

DIMENSIONS (unit=mm)

IP67 model



IP43 model



SPECIFICATIONS

Hardware Specification		PoE pin assignment
IEEE Standard	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-T Ethernet IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet	M12 port # 1~#8 support IEEE 802.3at/af End-point, Alternative A mode. Per port provides 30W PoE at/ 15W PoE af.
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	
Mac Address	8K MAC address table	Power Supply
Connector	10/100T: 8 x M12, 4-pole D-coded, Female with auto MDI/MDI-X function Power connector: 1 x M23, 5-pole A-coded, Male Relay contact : 1 x M12 5-pole A-coded	9.5~60VDC for 12V model -48VDC is available for single power input 50.4V~90VDC for 72V model 43V~160VDC for 110V model with input isolation
Protocol	CSMA/CD	Power Consumption
LED	Per unit: Power 1 (Green), Power 2 (Green), Ethernet: Link/Activity (Green)	10W for 12/24/48VDC 13.5W for 72V/110V
		Power Budget
		240W for 802.3at 54V input 120W for 802.3af 48V input

	80W for 12V input 80W for 24V input 80W for 72V Input 80W for 110V Input		CE EN61000-4-6 (CS), CE EN61000-4-8 (Magnetic Field), CE EN61000-6-2, CE EN61000-6-4
Operating Humidity	5% to 95% (Non-condensing)	Stability Testing	IEC61373 (Shock), IEC60068-2-32 (Free fall), IEC61373 (Vibration)
Operating Temperature	-40°C ~ 75°C (-40°F ~ 167°F)	Standard	EN50155 Compliant EN50121-3-2 Compliant EN50121-4 Compliant Fire & Smoke Compliant E-Mark
Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)	Warranty	5 years
Case Dimension	Aluminum case, IP-67, 215mm(W)x185mm(H)x71mm(D) Aluminum case, IP-43 202mm(W)x172mm(H)x62.5mm(D)		
Weight	IP67:1.4kgs ; IP43:1.2kgs		
Installation	Din Rail**, Wall Mount Design		
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),		

*Pending
**Optional

ORDERING INFORMATION

- **IPES-0008A-12V-67.....P/N: 8360-553**
8 10/100TX IP67 rated Industrial PoE at/af Switch w/M12 connectors; -40~75C; 12/24/48VDC dual input
- **IPES-0008A-12V-43.....P/N: 8360-5531**
8 10/100TX IP43 rated Industrial PoE at/af Switch w/M12 connectors; -40~75C; 12/24/48VDC dual input
- **IPES-0008A-72V-67.....P/N: 8360-554**
8 10/100TX IP67 rated Industrial PoE at/af Switch w/M12 connectors; -40~60C; 50.4~90VDC dual input
- **IPES-0008A-72V-43.....P/N: 8360-5541**
8 10/100TX IP43 rated Industrial PoE at/af Switch w/M12 connectors; -40~60C; 50.45~90VDC dual input
- **IPES-0008A-110V-67.....P/N: 8360-560**
8 10/100TX IP67 rated Industrial PoE at/af Switch w/M12 connectors; -40~60C; 43~160VDC dual input
- **IPES-0008A-110V-43.....P/N: 8360-5601**
8 10/100TX IP43 rated Industrial PoE at/af Switch w/M12 connectors; -40~60C; 43~160VDC dual input

OPTIONAL ACCESSORIES

M12 Connector / Cable

- **ECON230005PF** 5 Pin M23 Power Female Connector
- **ECONM23-5P(F)70CM CABLE** 5 Pin M23 Power Female 90C angle Connector+ 70 CM CABLE
- **ECAB124030MJ** 4Pin M12 RJ45 Male 3 Meters

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