

Unmanaged Rail Switches

8 10/100/TX M12 INDUSTRIAL UNMANAGED SWITCH

Overview

BSD rail unmanaged series 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 demands from industrial rolling stock applications. The BSD unmanaged rail IP67/IP43 series 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 these switches support extended operating temperature range from -40°C to 75°C.

A PoE version is available, BSD-IPES-0008A-12V (IP67/IP43) which supports IEEE802.3at/af standard feeding HI-power up to 30W at each PoE port for big power consumption devices like PTZ IP camera, High power wireless AP etc. The model is able to take 12V 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 90W output.

Both BSD-IES-0008A and BSD-IPES-0008A-12V (IP67/IP43) are compliant with EN50155/ 50121-3-2/ 50121-4 (railway applications).

Key Features BSD-IES-0008A

- 8 10/100TX Unmanaged Industrial Switch with M12 connectors and IP67/43 rated protection
- Redundant Power Design with wide DC12V~48V DC-12V~ -48V input
- 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



Key Features BSD-IPES-0008A-12V

- 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 90W 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



Ordering Information

BSD-IES-0008A-67	8 10/100TX M12/IP67 Industrial Switch 12/24/48VDC
BSD-IES-0008A-43	8 10/100TX M12/IP43 Industrial Switch 12/24/48VDC
BSD-IPES-0008A-67	8 10/100TX M12/IP67 PoE at/af Industrial Switch
BSD-IPES-0008A-43	8 10/100TX M12/IP43 PoE at/af Industrial Switch

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Specifications

BSD-IES-0008A

BSD-IPES-0008A-12V

IEEE Standard	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	
		IEEE802.3at/af Power over Ethernet
Transfer Rate	14,880 pps for Ethernet Port 148,800 pps for fast Ethernet Port	
MAC Address	16K MAC address table	
Connector	10/100TX: 8 x M12 4-pole D-coded , female with auto MDI/MDI-X function	
	Power: 1 x M12 5-pole A-coded, male	Power connector: 1xM23, 5 Pole A-Coded , Male Relay contact: 1xM12 5 pole A-coded
Protocol	CSMA/CD	
LED	Per unit: Power 1 (Green), Power 2 (Green); Ethernet: Link/Activity (Green)	
Power Supply	DC 12-48/DV-12~-48V, Redundant power (Power supply not included)	12/24/36/48VDC (9.2 to 60VDC) Redundant (Power Supply not Included)
Power Consumption	6W	Max 99 @12VDC Max 130W @24VDC Max 250W @48VDC
Operating Temperature	-40°C~-75°C (-40°F~167°F)	
Storage Temperature	-40°C~85°C (-40°F~185°F)	
Operating Humidity	5% ~ 95% (Non-condensing)	
Case Dimension	IP-67: 215mm x 185 mm x 71mm (WxHxD) [8.46 x 7.23x 2.8]" IP-43: 202mm x 172mm x 62.5mm (WxHxD) [7.65" x 6.77" X 2.46]"	
Installation	DIN rail, Wall mount design	
EMI & EMS	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	
Stability Testing	IEC60068-2-32 (Free fall), IEC61373 (Shock), IEC61373 (Vibration)	
Standard	EN50155, EN50121-3-2, EN 50121-4	
Warranty	5 years	