

# IPES-0008B

8 10/100TX PoE at/af Industrial Ethernet Unmanaged Switch ;  
 12V/48V input models

- Support IEEE802.3at/af up to 30W per port
- Dual 9V~56VDC input(12V model) compliant with ISO 7637-2
- Dual 45~56V DC input (48V model)
- Galvanic isolation protection (power input /Ethernet port to case ground)
- Max PoE budget 240W at 48V, 120W at 24V, 80W at 12V input
- Relay alarm output for power fail and alarm
- E-marking certificate for vehicle application\* (12V model)



## OVERVIEW

Lantech IPES-0008B is a high performance all 8 10/100TX industrial Ethernet switch with w/8 PoE 802.3af/at Injectors.

### Galvanic isolation for dual 48V, 12V input with max PoE budget

The IPES-0008B 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-0008B-12V accepts power input 9~56VDC with IEEE802.3at/af standard and feed up to 30W per PoE port. The 12V model is also compliant with ISO 7637-2 Pulse 5a which protects switch from being damaged by high voltage that could be found at vehicle cranky start.

The PoE budget is max 240W @48V, 120W @24V, 80W @12V input respectively

### E-marking certificate\*, High reliability and extended working temperature

Lantech IPES-0008B provides  $\pm 2000V$  EFT and  $\pm 6000V$  ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, surveillance, Wireless backhaul, Semi-conductor factory and assembly lines.

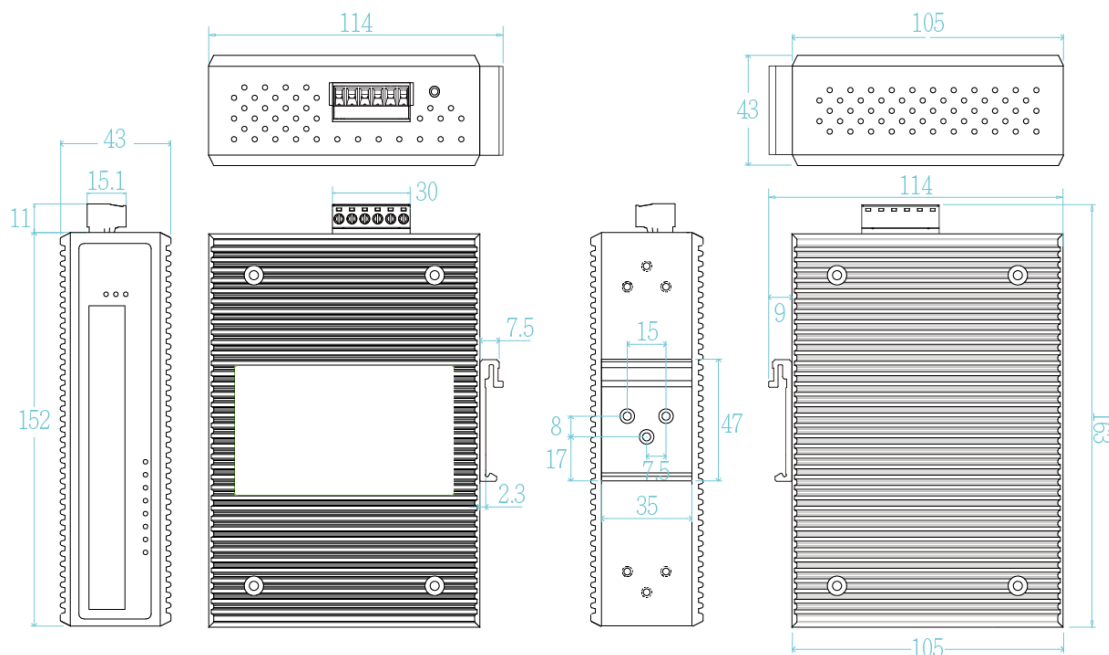
The -E model can be used in extreme environments with an operating temperature range of  $-40^{\circ}C$  to  $75^{\circ}C$ .

The E-marking certificate (12V model) makes it the most suitable PoE switch for bus, carriage, other vehicles application as well as for industrial areas where the power source is limited with 12V or 24V but has demand of IP surveillance or VoIP applications.

## FEATURES & BENEFITS

- 8 10/100TX industrial switch w/8 PoE 802.3af/at Injectors (Total 8 Ports Switch)
- Embedded 8 PoE Injectors IEEE802.3af/at function to feed power up to 30W@54V per port for active operation
- Dual 9V~56VDC power input for 12V model with ISO7637-2 compliance
- PoE budget 80W at 12V input, 120W at 24V input, 240W at 48V input
- Back-plane (Switching Fabric): 1.6Gbps
- Provides EFT protection  $\pm 2000$  VDC for power line.
- Supports  $\pm 6000$  VDC Ethernet ESD protection
- E-marking\* certificate for vehicle application (12V model)
- Relay alarm output for power fail and alarm
- IP30 metal housing with DIN rail and Wall-mount\*\* design

**DIMENSIONS (unit=mm)**



**SPECIFICATION**

Hardware Specification		PoE pin assignment	RJ-45 port # 1~#8 support IEEE 802.3at/af End-point, Alternative A mode. Per port provides up to 30W . Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet	Power Consumption	5W
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps	Galvanic Isolation	Between power input and case ground Between Ethernet port and case ground
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Case Dimension	Metal case. IP-30 43 (W) x 105 (D) x 152 (H) mm
Mac Address	16K MAC address table	Weight	900 g
Connectors	10/100TX: 8 x ports RJ-45 with Auto MDI/MDI-X function Power & P-Fail connector: 1 x 6-pole terminal block	Installation	DIN Rail and Wall Mount** Design
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)	Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green) PoE : Active (Green)	EMI & EMS	FCC Class A, CE EN55032 Class A, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8
Operating Humidity	5% ~ 95% (Non-condensing)	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	Vehicle certificate	E13 marking* (12V model)
Storage Temperature	-40°C~85°C / -40°F~185°F	MTBF	NA
Power Supply	45~56VDC(48V model); 9V~56VDC(12V model)	Warranty	5 years
PoE Budget	240W for 45~56V input(48V model) 80W at 12V input; 120W at 24V input(12V model)		

\*Future Release  
\*\*Optional

## ORDERING INFORMATION

- **IPES-0008B-48V.....P/N: 8351-108**  
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch; dual 45~56VDC input; -20°C to 60°C
- **IPES-0008B-48V-E.....P/N: 8351-109**  
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch; dual 45~56VDC input; -40°C to 75°C
- **IPES-0008B-12V.....P/N: 8351-110**  
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~56VDC input; compliant with ISO7637 & E-marking; -20°C to 60°C
- **IPES-0008B-12V-E.....P/N: 8351-111**  
8 10/100TX w/8 PoE Mode A 802.3at/af 30W Industrial Ethernet Switch, dual 9V~56VDC input, compliant with ISO7637 & E-marking; -40°C to 75°C

## OPTIONAL ACCESSORIES

### DIN Rail Power

- **NDR-480 Series** 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-240 Series** 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **NDR-120 Series** 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)
- **NDR-75 Series** 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)

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