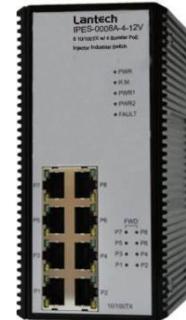# IPES-0008A-12V

8 10/100TX w/ 8 Booster PoE at/af Injector Industrial Switch

- *Conforms to IEEE 802.3at/af PoE standard*
- *Input voltage 12V~48V, Output voltage 48V PoE*
- *PoE power budget 240W(48V); 90W(12V);120W(24V)*
- *Relay Alarm Output System Events*
- *-40~75C Wide Operation Temperature(-E model)*
- *Supports ISO-7637 Pulse5*

OVERVIEW

The Lantech IPES-0008A-12V is an 8 10/100BaseTX industrial switch w/8 booster POE at/af Injectors. Equipped with DC 12~48V redundant input power, the Lantech IPES-0008A-12V is able to boost input voltage from 12V to 48V then feed each PoE port up to 15.4Watts/30Watts with total PoE power budget 240W(48V input),120W(24V input) and 90W(12V input). It also supports relay contact to connect with alarm system in case of power or port failure.

Lantech IPES-0008A-12V is designed to meet the demands of vehicle and industrial environments, comes packaged in a robust IP30 ho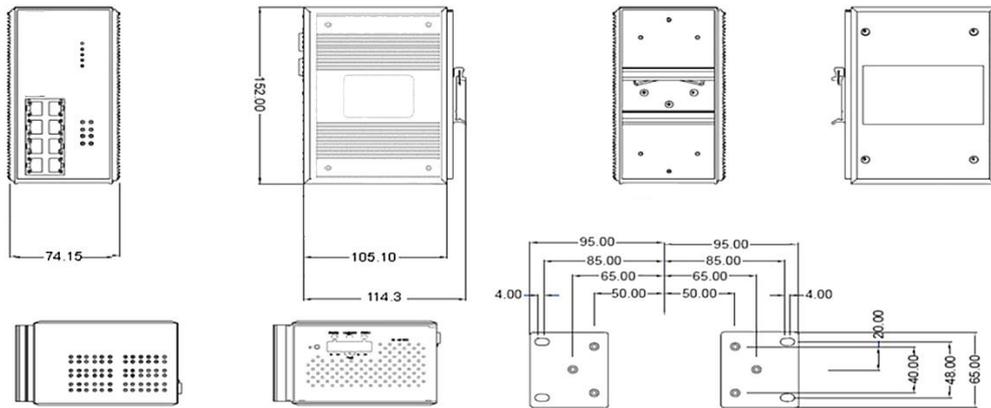using and has been tested extensively to meet Industrial EMI and EMC standards. Rigorous mechanical testing has also been undertaken to comply with free fall, shock and vibration stability test requirements, which ensure long term reliability in critical industrial environments. It is the most suitable PoE switch for bus, carriage, other vehicles and industrial areas where the power source is limited with 12V or 24V but has demand of surveillance or VoIP applications.

The switch also supports ISO-7637 Pulse5 that protects switch from being damaged by high voltage that could be found at vehicle cranky start.

FEATURES & BENEFITS

- **System Interface/Performance**
  - RJ-45 port support Auto MDI/MDI-X Function
  - Embedded 8-port booster PoE injectors function
  - IEEE 802.3af/at Standards
  - Back-plane (Switching Fabric): 1.6Gbps
  - 1Mbits Packet Buffer
  - 8K MAC Address Table
  - Support standard operating temperature (-20°C~60°C)
  - Wide operating temperature(-40°C~75°C)
- **Power Supply**
  - Redundant Power Design
  - 12V input with PoE budget 90W
  - 24V input with PoE budget 120W
  - 48V input with Poe budget 240W
- **Case/Installation**
  - IP-30 Protection
  - DIN Rail and Wall Mount Design**
- **Relay Alarm**
  - Relay output for port breakdown, power fail and alarm

DIMENSIONS (unit=mm)

SPECIFICATION

Hardware Specification	
IEEE Standards	IEEE 802.3 10Base-T Ethernet
	IEEE 802.3u 100Base-TX
	IEEE802.3ab 1000Base-T
	IEEE802.3x Flow Control and Back Pressure
	IEEE802.3af Power over Ethernet
	IEEE802.3at Power over Ethernet
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps
	Packet throughput ability(Full-Duplex): 8.3Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port
	148,800pps for Fast Ethernet port
Packet Buffer	1Mbits
MAC Address	8K MAC address table
Connectors	10/100TX: 8 x RJ-45
Network Cable	10Base-T: UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable
	EIA/TIA-568 100-ohm (100m)
	100Base-TX: UTP/STP Cat. 5/ 5E/ 6 cable
	EIA/TIA-568 100-ohm (100m)
Protocol	CSMA/CD
PoE pin assignment	RJ-45 port # 1~#8 support IEEE 802.3af/at End-point, Alternative A mode. Per port provides 15.4W/30W ability.
	Positive (VCC+): RJ-45 pin 1,2.
	Negative (VCC-): RJ-45 pin 3,6.
LED	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Red),
	8 port 10/100: Link/Activity (Green), Full duplex/Collision (Yellow), Power Feeding (Green)
Relay Output	Provides one relay output for port breakdown, power

	fail and alarm.
	Alarm Relay current carry ability: 1A @ DC24V
Power Supply	External Power Supply: DC 12~48V, Redundant power D12V~DC 48V and connective removable terminal block.
Power Consumption	10 Watts (Max.); POE Power Budget:240 Watts (48V input); 90W(12V); 120W(24V input)
Operating Humidity	5% ~ 95% (Non-condensing)
Operating Temperature	Standard: -20°C~60°C /-4°F~140°F
	Wide Operating Temperature for E models: -40°C~75°C / -40°F~167°F
Storage Temperature	-40°C~85°C / -40°F~185°F
Case Dimension	IP-30, 74mm (W) x 115mm (D) x 152mm (H)
Installation	Provide DIN rail kit for DIN-type cabinet install Optional wall mount kit
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, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Warranty	5 years

*Future Release

**Optional

ORDERING INFOMATION

- **IPES-0008A-12V…………………......P/N: 8350-752**
  8 10/100TX w/ 8 Booster PoE at/af Injector (12~48V) Industrial Switch; -20~60C
- **IPES-0008A-12V-E…………….…....P/N: 8350-753**
  8 10/100TX w/ 8 Booster PoE at/af Injector (12~48V) Industrial Switch; -40~75C
- **IPES-0008A……………………........P/N: 8350-756**
  8 10/100TX w/ 8 48VDC PoE at/af Injector Industrial Switch; -20~60C
- **IPES-0008A-E……….……………....P/N: 8350-757**
  8 10/100TX w/ 8 48VDC PoE at/af Injector Industrial Switch; -40~75C

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 (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 18 Watts at 75°C.)
- **AD1024-24F**   24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 9 Watts at 75°C.)
- **AD1240-48S**   48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°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 (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1240-48S-5**   48~56VDC, 4.3A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1360-48S-5**   48~56VDC, 6.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1500-48S-5**   48~56VDC, 9A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

Wall Mount Bracket

MBEAR001   Wall mount bracket for 74(W) x 114 (D) x 152 (H) mm Industrial switches