

IPES-0104GT-4

4-Port 10/100TX + 1 GigaT with 4 PoE Injector Industrial Switch

- *Complies with IEEE802.3at/af PoE standard*
- *Redundant power supply with overload current protection*
- *Wide operating temperature range from -40°C to 75°C (-E model)*
- *Support 12V to 48V DC booster design for vehicle application(12V model)*
- *High power provides up to 30W output per port*



OVERVIEW

The Lantech IPES-0104GT-4 is a 4-port 10/100TX + 1 GigaT with 4 PoE Injector Industrial PoE at/af Switch for plug-and-play installation. This slim switch is designed with Wall-mountable or DIN rail mountable, making installation more easy.

Besides redundant power supply with overload current protection, the IPES-0104GT-4 supports EFT protection for 2000VDC power and 6000VDC Ethernet ESD protection, which can reduce unstable environment damage caused by power line and Ethernet. Featured with relay contact to alarm system function, the IPES-0104GT-4 can immediately notify of power failure event.

The IPES-0104GT-4 is designed to meet with critical network environment with IP 30 enclosure and test under extensive Industrial EMI and Safety standards. It also passed stability testing such as free fall, shock and vibration.

The Lantech IPES-0104GT-4 is the best Industrial switch to connect with IP Camera, Wireless Equipments where are placed outdoor or in tight space cabinet. The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

The IPES-0104GT-4 supports the high power PoE standard which provides higher power output up to 30W per port for devices that require higher power supply.

With voltage boost design, the IPES-0104GT-4-12V can work from 12/24V input power source and boost the voltage to 48VDC to feed the POE power over Ethernet cable for any vehicles that usually has 12/24V power source. The slim compact design is able to fit in variety of cabinets and space.

FEATURES & BENEFITS

System Interface/Performance

- RJ-45 port support Auto MDI/MDI-X Function
- Embedded 4-port PoE Injector Function
- Store-and-Forward Switching Architecture
- Back-plane (Switching Fabric): 2.8Gbps
- 8K MAC address table

Supports Wide Operating Temperature (-40°C~75°C)

IP-30 Metal Housing with DIN Rail and Wall Mount

Design

Power Supply

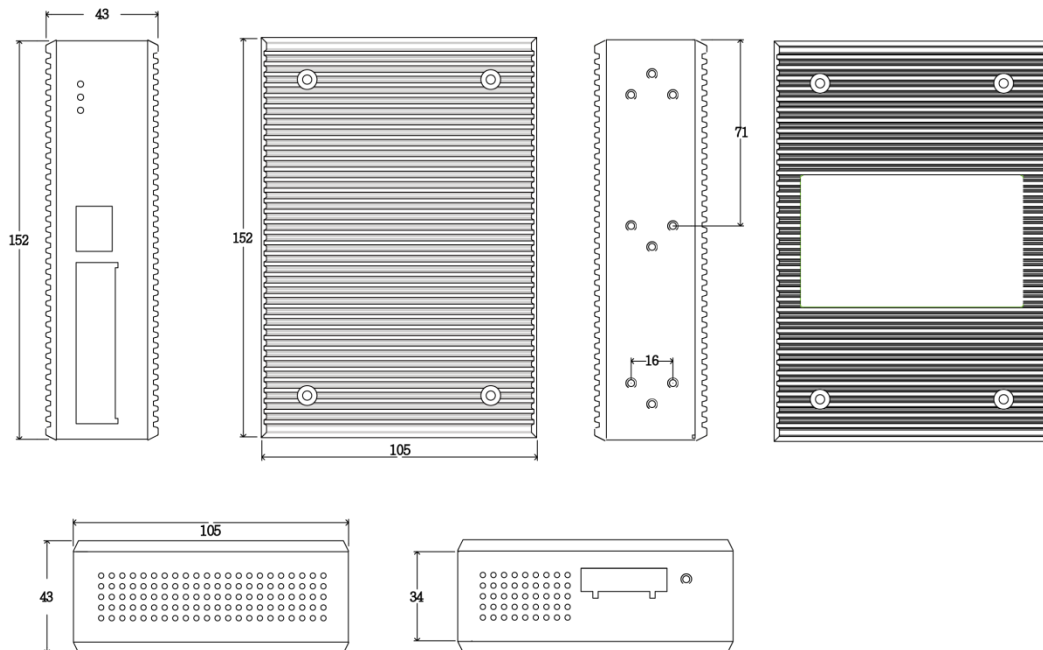
- DC 48V dual input
- DC12V~48V dual input (12V model)

Provides EFT protection 2000 VDC for power line

Supports 6000 VDC Ethernet ESD protection

Relay output for power fail and alarm

Built-in 12 to 48V DC-DC converter for PoE(12V model)

DIMENSIONS (unit=mm)

SPECIFICATION

IEEE Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet	1 port 10/100/1000T: Link/Activity(Green), Full duplex/Collision(Yellow)
Switch Architecture	Back-plane (Switching Fabric): 2.8Gbps Packet throughput ability (Full-Duplex): 1.488Mpps @64bytes	Power Supply
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	48VDC (45~56VDC), - 48VDC (-45~ -56VDC), 9.5V~56VDC dual input for 12V model
MAC Address	8K MAC address table	Power Consumption
Connectors	10/100TX: 4 x RJ-45 with auto MDI/MDI-X function 10/100/1000T: 1 x RJ-45 with auto MDI/MDI-X Support 4 PoE injector function	PoE budget
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m)	Operating Humidity
PoE PIN Assignment	RJ-45 port #1 - #4 support IEEE 802.3af End-point; Alternative A mode. Positive (VCC+): RJ-45 pin 1,2 Negative (VCC-) : RJ-45 pin 3,6 Data (1,2,3,6)	Operating Temperature
Protocol	CSMA/CD	EMI & EMS
Case Dimension	IP30, 43mm (W) x 152mm (H) x 105mm (D)	FCC Class A, CE EN61000-4-2(ESD), CE EN61000-4-3(RS), CE EN61000-4-4(EFT), CE EN61000-4-5(Surge), CE EN61000-4-6(CS), CE EN61000-4-8, CE EN61000-4-11, CE EN61000-6-2, CE EN61000-6-4
Weight	800g	Stability Testing
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Red) 4 port 10/100TX: Link/Activity (Green), PoE (Yellow)	IEC60068-2-32(Free fall), IEC60068-2-27(Shock), IEC60068-2-6(Vibration)
		Warranty
		5 years

*Future release
**Optional

ORDERING INFORMATION

- **IPES-0104GT-4-48V.....P/N: 8350-922**
4 10/100TX w/4 PoE at/af Industrial Switch + 1 GigaT; -20°C~60°C; 48V dual input
- **IPES-0104GT-4-48V-E.....P/N: 8350-923**
4 10/100TX w/4 PoE at/af Industrial Switch + 1 GigaT; -40°C~75°C; 48V dual input
- **IPES-0104GT-4-12V.P/N: 8350-924**
4 10/100TX w/4 PoE at/af Industrial Switch + 1 GigaT; -20°C~60°C; 9.5~56V dual input
- **IPES-0104GT-4-12V-E.....P/N: 8350-925**
4 10/100TX w/4 PoE at/af Industrial Switch + 1 GigaT; -40°C~75°C; 9.5~56V dual input

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)

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