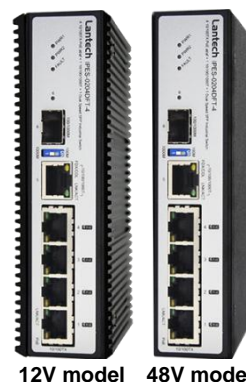


# IPES-0204DFT-4

4-Port 10/100TX + 1-Port GigaT + 1-Port Dual Speed SFP w/ 4 PoE +  
 Injector Industrial Switch

- IEEE 802.3at/af PoE+ standard
- Built-in 4port PoE injectors up to 30W per port
- 12V input to 48V PoE output (12V model)
- Relay contact to connect with alarm system
- Wide operating temperature range from -40°C to 75°C



## OVERVIEW

The Lantech IPES-0204DFT-4 is a 4 x 10/100TX + 1 GigaT + 1Dual speed SFP with 4-PoE-injector Industrial PoE+ Switch feeding up to 30W/port for plug-and-play installation. This slim switch is wall-mountable\*\* or DIN rail mountable, making installation easier and flexible.

The IPES-0204DFT-4 is designed to meet with critical network environment with IP 30 enclosure and test under extensive Industrial EMI and Safety standards. It supports EFT protection for 2000VDC power and 6000VDC contact ESD protection, which can reduce unstable environment damage caused by power line and Ethernet. The IPES-0204DFT-4 also supports IEEE 802.3at/af standard for PoE/PoE+ auto-detection and PoE classification resistors for hand-shaking with PD (power device),

which can prevent any connected devices from burning down by sending high voltage (48V) out.

With voltage boost design, the IPGS-0204DFT-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.

The Lantech IPES-0204DFT-4 is the best Industrial switch to connect with IP Camera, Wireless equipments where are placed outdoor or tight space cabinet such as street cabinet, wireless hotspots etc.

## 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

### Provides EFT protection 2000 VDC for power line

### Supports 6000 VDC ESD contact protection

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

### Case/Installation

- IP-30 Metal Housing Protection
- DIN Rail and Wall Mount Design

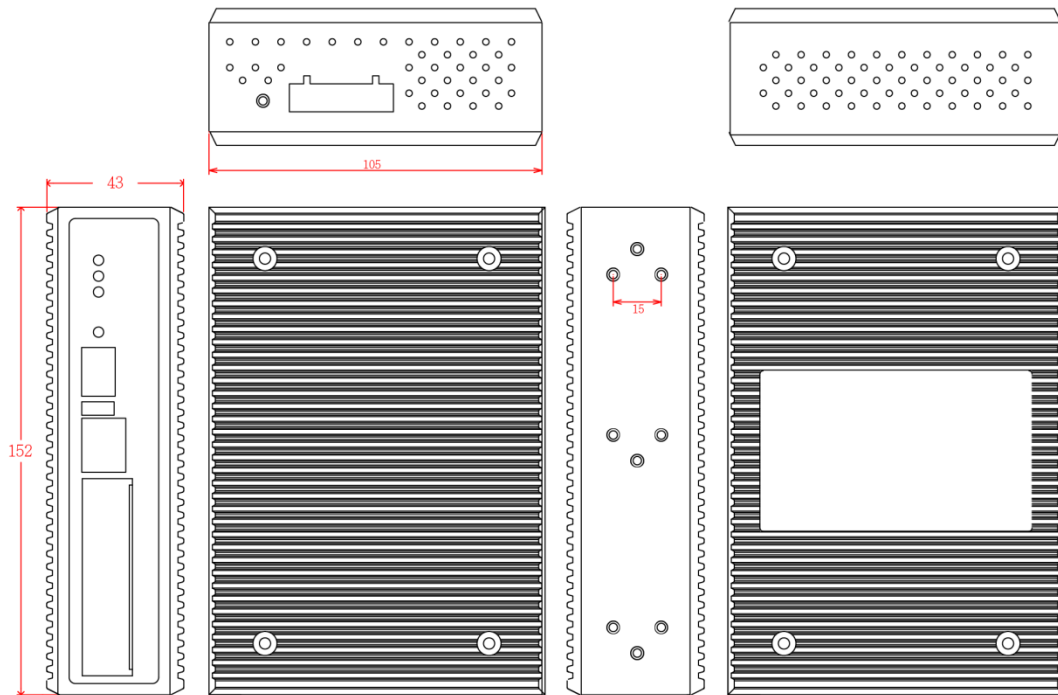
### Power Supply

- DC 48V Redundant Power (48V model)
- DC 12V~48V Redundant power (12V model)
- Overload Current protection by fuse

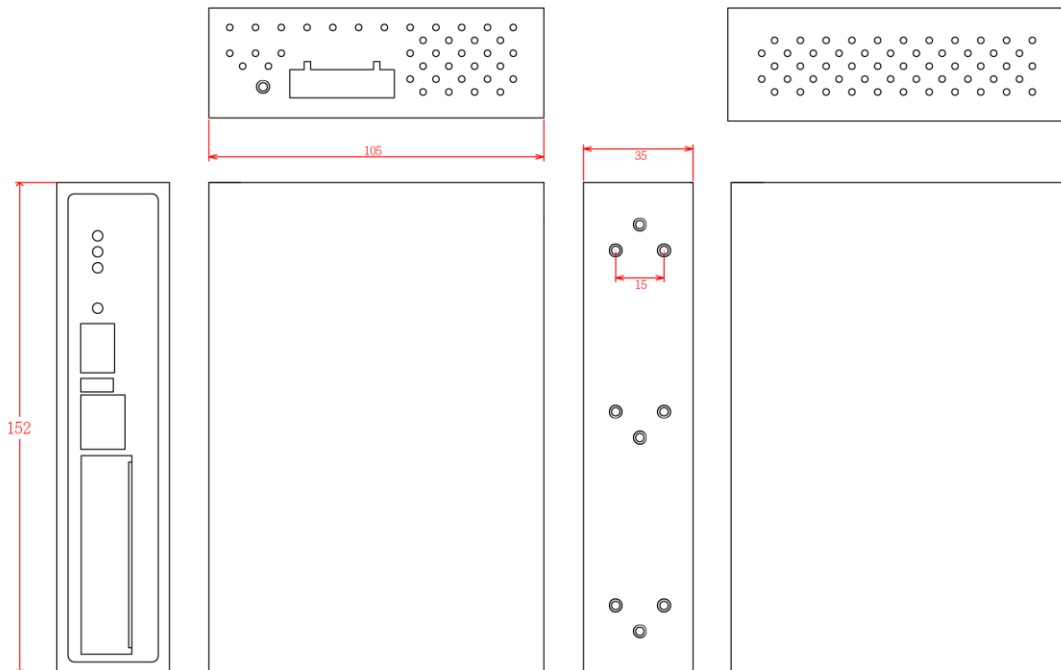
### Pass ESD Sensitivity Classification (class A)

**DIMENSIONS (unit=mm)**

**12V mdoel**



**48V mdoel**



## SPECIFICATION

IEEE Standards	IEEE 802.3 10Base-T Ethernet	Power Supply	Redundant PoE 48VDC (44~56VDC) :48V model
	IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet		Redundant PoE 12VDC ( 9.5~56VDC)
	IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet		Power Consumption
Switch Architecture	Back-plane (Switching Fabric): 1.0Gbps Packet throughput ability (Full-Duplex): 1.488Mpps @64bytes	PoE budget	120W (48V model) ; 80W (12V model)
		Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port
Mac Address	8K MAC address table	Overload current protection	Present
Connectors	10/100TX: 4 x RJ-45 with auto MDI/MDI-X function; Support PoE+ injector function 10/100/1000T:1x RJ-45 with auto MDI/MDI-X function 100M/1000M fiber: 1 x dual speed SFP slot for Single-mode or Multi-mode type fiber cable	Operating Humidity	5% ~ 95% (Non-condensing)
		Operating Temperature	-40°C~75°C / -40°F~167°F
PoE pin assignment	RJ-45 port # 1~# 4 support IEEE 802.3at/af End-point, Alternative A mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6 )	Storage Temperature	-40°C~85°C /-40°F~185°F
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)	Case Dimension	Metal case. IP-30, 12V model: 43(W) x 105(D) x 152(H) mm 48V model: 35(W) x 105(D) x 152(H) mm
Optical Cable	Multi-mode: 50/125um~62.5/125um Single-mode: 9/125um Available distance: 2km (Multi-mode)/30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)	Weight	660g
Protocol	CSMA/CD	Installation	DIN Rail and Wall Mount Design
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault(Amber) Fiber: Link/Active(Green) TX: Link/Active(Green), PoE: Feeding Power (Amber)	EMI & EMS	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
		Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
		MTBF	N/A
		Warranty	5 years

## ORDERING INFORMATION

- **IPES-0204DFT-4-48V.....P/N: 8351-915**  
4 10/100TX + 1 GigaT + 1 Dual speed SFP w/ 4 PoE+ Injector Industrial Switch  
-40°C to 75°C ; DC 44~56V dual input
- **IPES-0204DFT-4-12V.....P/N:8351-916**  
4 10/100TX + 1 GigaT + 1 Dual speed SFP w/ 4 PoE+ Injector Industrial Switch  
-40°C to 75°C ; DC 9.5~56VDC

## OPTIONAL ACCESSORIES

### DIN Rail Power

- **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)

### Lantech Communications Global Inc.

www.lantechcom.tw  
info@lantechcom.tw

© 2015 Copyright Lantech Communications Global Inc. all rights reserved.  
The revise authority rights of product specifications belong to Lantech Communications Global Inc.  
Lantech may make changes to specification and product descriptions at anytime, without notice.