

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 54V PoE output (12V model)
- Relay contact to connect with alarm system
- Wide operating temperature range from -40°C to 75°C



12V model 48V model

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 IP30 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 54VDC 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

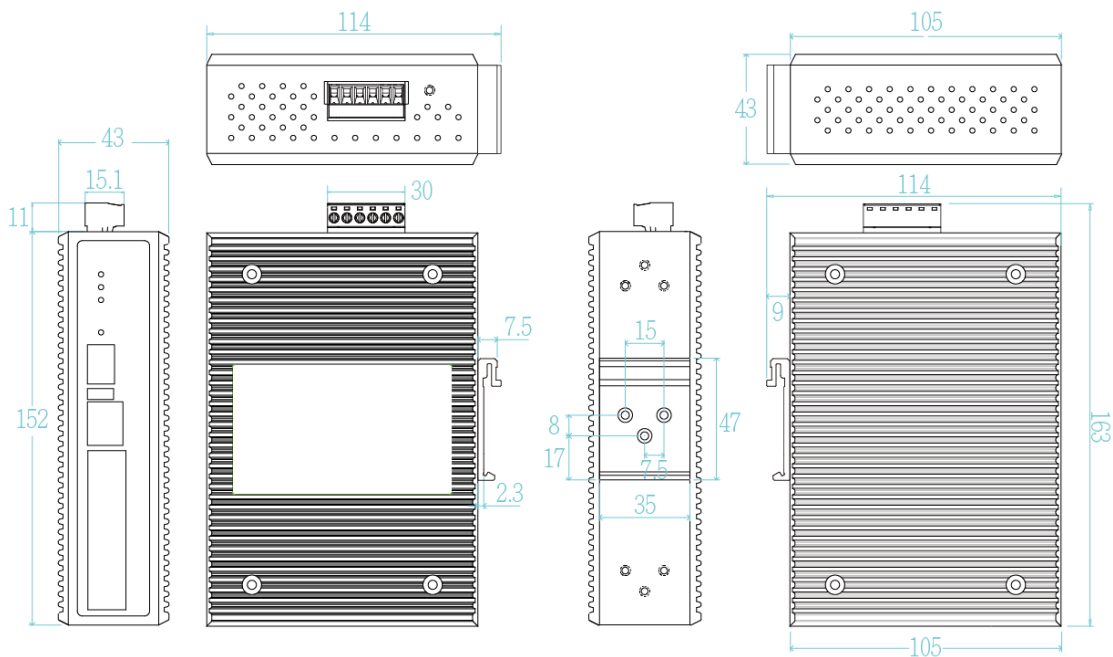
Power Supply

- DC 48V Redundant Power (48V model)
- DC 12V~54V Redundant power (12V model)
- Overload Current protection by fuse

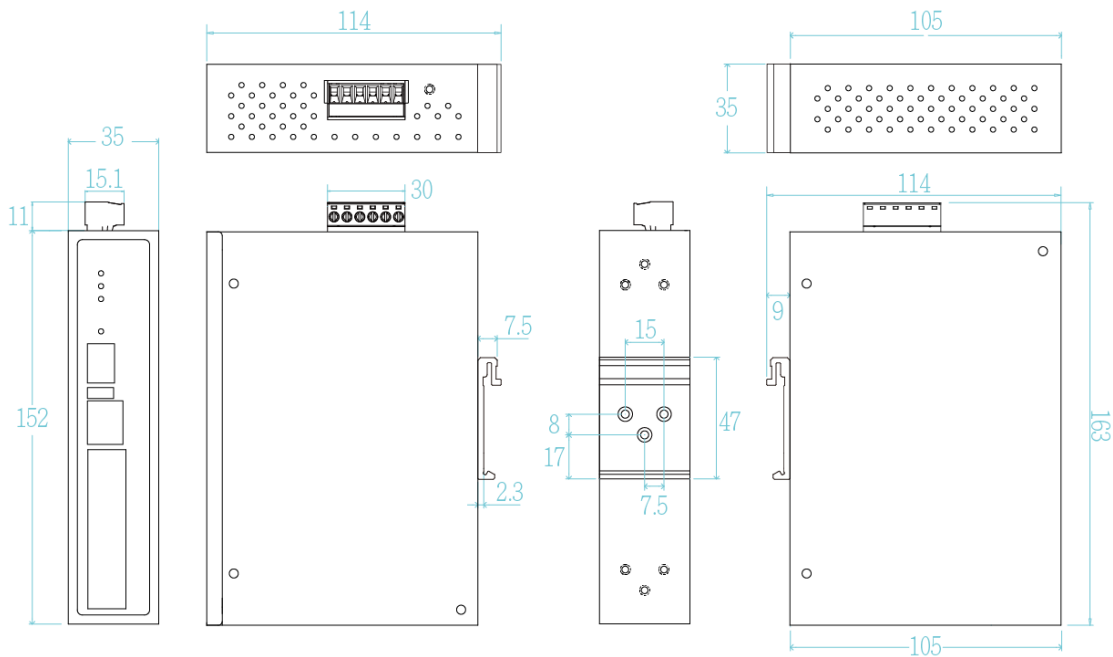
Pass ESD Sensitivity Classification (class A)

DIMENSIONS (unit=mm)

12V mdoel



48V mdoel



SPECIFICATION

IEEE Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE802.3ab 1000Base-T IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet	148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port
Switch Architecture	Back-plane (Switching Fabric): 1.0Gbps	Mac Address 8K MAC address table
Transfer Rate	14,880pps for Ethernet port	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
		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)	Temperature	
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)	Storage Temperature	-40°C~85°C / -40°F~185°F
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)	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
Protocol	CSMA/CD	Weight	660g
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault(Amber) Fiber: Link/Active(Green) TX: Link/Active(Green), PoE: Feeding Power (Amber)	Installation	DIN Rail and Wall Mount** Design
Power Supply	Redundant PoE 48VDC (44~57VDC) :48V model Redundant PoE 12VDC (9.5~57VDC)	EMI & EMS	FCC Class A, CE EN61000-6-2, 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 EN55032 Class A, CE EN55024
Power Consumption	4.1 Watts max.	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
PoE budget	120W@48VDC ; 120W@24VDC ; 80W@12VDC	MTBF	N/A
Overload current protection	Present	Warranty	5 years
Operating Humidity	5% ~ 95% (Non-condensing)		**Optional
Operating	-40°C~75°C / -40°F~167°F		

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 44~57V 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 9.5~57VDC

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)

Mini GBIC (SFP)

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| ■ 8330-162X MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver | ■ 8330-065 MINI GBIC 100Base (LC/MM/5KM) Transceiver |
| ■ 8330-163X MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver | ■ 8330-061 MINI GBIC 100Base (LC/SM/30KM) Transceiver |
| ■ 8330-165X MINI GBIC 1000LX (LC/SM/10KM) Transceiver | ■ 8330-197 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310) |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/SM/40KM) Transceiver | ■ 8330-198 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550) |
| ■ 8330-166 MINI GBIC 1000XD (LC/SM/50KM) Transceiver | ■ 8330-195 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310) |
| ■ 8330-169 MINI GBIC 1000XD (LC/SM/60KM) Transceiver | ■ 8330-196 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/SM/80KM) Transceiver | ■ 8330-188 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310) |
| ■ 8330-170 MINI GBIC 1000EZ (LC/SM/120KM) Transceiver | ■ 8330-189 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550) |
| ■ 8330-060 MINI GBIC 100Base (LC/MM/2KM) Transceiver | ■ 8330-186 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310) |

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