

IPES-0104FT

4-Port 10/100TX + 1-Port 100FX w/ 4 PoE Injector

Industrial Switch

- IEEE 802.3af PoE standard
- Built-in 4port PoE injectors
- Relay contact to connect with alarm system
- Wall-mountable and DIN rail mountable
- Wide operating temperature range from -40°C to 75°C (-E model)



OVERVIEW

The Lantech IPES-0104FT is a 4 x 10/100TX + 1 100FX with 4-PoE-injector Industrial PoE Switch for plug-and-play installation. This slim switch is Wall-mountable or DIN rail mountable, making installation easier and flexible.

The IPES-0104FT 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 3000VDC power and 4000VDC Ethernet ESD protection, which can reduce unstable environment damage caused by

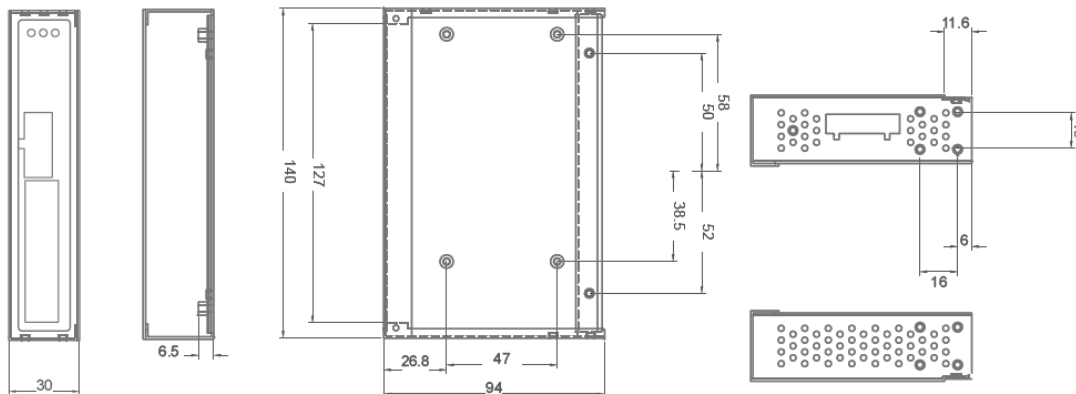
power line and Ethernet. The IPES-0104FT also supports IEEE 802.3af standard for PoE auto-detection and PoE classification resistors for hand-shaking with PD (power device), which can prevent any connected devices from burning down by sending high voltage (48V) out.

The Lantech IPES-0104FT is the best Industrial switch to connect with IP Camera, Wireless Equipments where are placed outdoor or tight space cabinet such as schools and wireless hotspots.

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): 1.0Gbps
 - 1K MAC Address Table
- Provides EFT protection 3000 VDC for power line
- Supports 4000 VDC Ethernet ESD protection
- **Case/Installation**
 - IP-30 Metal Housing Protection
 - DIN Rail and Wall Mount Design
- **Power Supply**
 - DC 48V Redundant Power
 - Overload Current Re-settable Fuse Present
- Pass ESD Sensitivity Classification (class A)
- cUL (CSA/UL) Safety certified

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 IEEE802.3af Power over Ethernet	Power Consumption	-48VDC (- 45- - 56VDC) Redundant Power 3.1 Watts (Unload) 4.6 Watts (Full load: Only Ethernet) 56.5 Watts (Full load: Only PD load) 58 Watts (Full load)
Switch Architecture	Back-plane (Switching Fabric): 1.0Gbps Packet throughput ability (Full-Duplex): 1.488Mpps @64bytes	Overload current protection	Present
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Operating Humidity	5% ~ 95% (Non-condensing)
Mac Address	1K MAC address table	Operating Temperature	-20°C~60°C /-4°F~140°F -40°C~75°C / -40°F~167°F (-E model)
Connectors	10/100TX: 4 x RJ-45 with auto MDI/MDI-X function; Support PoE injector function 100M fiber: 1 x SC type connector for Single-mode or Multi-mode type fiber cable	Storage Temperature	-40°C~85°C /-40°F~185°F
PoE pin assignment	RJ-45 port # 1~# 4 support IEEE 802.3af End-point, Alternative B mode. Positive (VCC+): RJ-45 pin 1, 2. Negative (VCC-): RJ-45 pin 3, 6. Data (1,2,3,6)	Case Dimension	Metal case. IP-30, 30mm (W) x 95mm (D) x 140mm (H)
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)	Weight	824 g
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)	Installation	DIN Rail and Wall Mount Design
Protocol	CSMA/CD	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
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault(Red) Fiber: Link/Active(Green) TX: Link/Active(Green), Full duplex/Collision (Yellow) PoE: Feeding Power (Green)	Safety	UL, cUL, CE/EN60950-1
Power Supply	48VDC (45~56VDC),	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
		MTBF	259356 hrs
		Warranty	5 years

ORDERING INFORMATION

- **IPES-0104FT-SC-MM.....P/N: 8350-911**
4 10/100TX + 1 100FX (SC, MM 2km) w/ 4 PoE Injector Industrial Switch
-20°C to 60°C standard operation temperature
- **IPES-0104FT-SC-SM.....P/N: 8350-912**
4 10/100TX + 1 100FX (SC, SM 30km) w/ 4 PoE Injector Industrial Switch
-20°C to 60°C standard operation temperature
- **IPES-0104FT-ST-MMP/N: 8350-921**
4 10/100TX + 1 100FX (ST, SM 2km) w/ 4 PoE Injector Industrial Switch
-20°C to 60°C wide operation temperature
- **IPES-0104FT-SC-MM-EP/N: 8350-917**
4 10/100TX + 1 100FX (SC, MM 2km) w/ 4 PoE Injector Industrial Switch
-40°C to 75°C wide operation temperature
- **IPES-0104FT-SC-SM-EP/N: 8350-920**
4 10/100TX + 1 100FX (SC, SM 30km) w/ 4 PoE Injector Industrial Switch
-40°C to 75°C wide operation temperature

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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