IES-0104FT

4 10/100TX + 1 100FX Industrial Switch

- *UL Class I Division II for Group A,B,C and D hazardous location*
- *Wide-range redundant power with polarity reverse protection*
- *Provides EFT & ESD protection*
- *Wide operating temperature range from -40℃ to 75℃ (-E model)*

OVERVIEW

The Lantech IES-0104FT is a 4-port 10/100TX + 1-port 100FX Industrial Switch for plug-and-play installation. It can auto detect power inputs and supports wide input range from 9 to 56VDC. To increase reliability, the IES-0104FT provides redundant power design with polarity reverse protection as well as EFT and ESD protections.

The Lantech IES-0104FT is designed to meet the demands of industrial environments, comes packaged in a robust IP-30 housing and has been tested extensively to meet Industrial EMI and EMC standards. With UL Class I Division II approval, the IES-0104FT can be implemented in hazardous or explosive condition without accelerating the damage. Rigorous mechanical testing has also been undertaken with free fall,
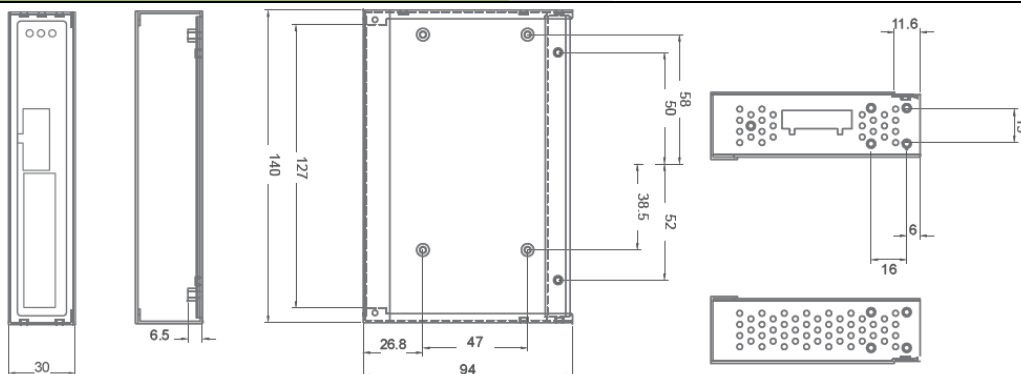
shock, and vibration stability test, which ensure long term reliability in critical industrial environments. The -E model can be used in extreme environments with an operating temperature range from -40°C to 75°C.

Featured with relay contact to alarm system, IES-0104FT can immediately notify of power failure event. IES-0104FT is compact in size and easy to be installed with DIN rail and wall mount design. IES-0104FT is the best to use in automation, transportation, heavy Industrial factory and other factory assembly lines. It is your best choice even in inflammable environment such as mining, oil & gas, chemical, processing automation area.

FEATURES & BENEFITS

- **RJ-45 port support Auto MDI/MDI-X Function**
- **Store-and-Forward Switching Architecture**
- **Back-plane (Switching Fabric): 1.0Gbps**
- **2K MAC address table**
- **Supports Wide Operating Temperature (-40°C~75°C)**
- **Provides EFT protection 3000 VDC for power line**
- **Supports 6000 VDC Ethernet ESD protection**

- **Provides broadcast storm protection**
- **IP-30 Protection with DIN Rail and Wall Mount Design**
- **UL Class I Division II for Group A,B,C and D**
- **Power Supply**
  - *Wide-range Redundant Power Design*
  - *Power Polarity Reverse Protect*
  - *Overload Current Re-settable Fuse Present*

DIMENSIONS (unit=mm)

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SPECIFICATION

Hardware Specification

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE802.3x Flow Control and Back Pressure	Power Consumption	4.44 Watts
		Operating Humidity	5% ~ 95% (Non-condensing)
Switch Architecture	Back-plane (Switching Fabric): 1.0Gbps Packet size throughput : 64bytes~1522bytes	Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F (-E model)
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Storage Temperature	-40°C~85°C / -40°F~185°F
Mac Address	2K MAC address table	Case Dimension	Metal case. IP-30, 30 (W) x 95 (D) x 140(H) mm
Connectors	10/100TX: 4 x RJ-45 with auto MDI/MDI-X function 100M fiber: 1 x SC type connector for Single-mode or Multi-mode type fiber cable [Multi-Mode] power budget: Min: 9dB , MAX: 19dB. [Single-Mode] power budget: Min: 19dB , MAX: 26dB.	Weight	800 g
		Installation	DIN Rail and Wall Mount Design
		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 EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)		
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)	Safety	UL, cUL, CE/EN60950-1 UL Class I Division II for Group A,B,C and D hazardous location
Protocol	CSMA/CD	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
LED	Per port: Link/Activity (Green), Full duplex/Collision (Yellow) Per unit: Power 1 (Green), Power 2 (Green), Fault(Red)	MTBF	380717 hrs
Reserve polarity protection	Present	Warranty	5 years
Overload current protection	Present		
Power Supply	24 VDC (9~56VDC), 18 VAC (12~36VAC),Redundant power with polarity reverse protect function and removable terminal block		

ORDERING INFOMATION

- **IES-0104FT (SC/MM)……….......P/N: 8350-330**
  4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch
- **IES-0104FT (SC/SM 30KM).....P/N: 8350-331**
  4 10/100TX + 1 100FX (SC, SM 30km) Industrial Switch
- **IES-0104FT-E (SC/MM)…….......P/N: 8350-335**
  4 10/100TX + 1 100FX (SC, MM 2km) Industrial Switch; -40°C to 75°C wide operation temperature
- **IES-0104FT-E (SC/SM 30KM)..P/N: 8350-336**
  4 10/100TX + 1 100FX (SC, SM 30km) 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
- **AD1024-24F** 24VDC, 1A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°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

Datasheet Version 1.0