IES-0008T

8-Port 10/100TX Slim Type Industrial Switch

- *UL Class I Division II for Group A,B,C and D hazardous location*
- *Wide-range redundant power with polarity reverse protection*
- *DNV Type Approved for Ships, Craft and Off-shore Platforms*
- *Wide operating temperature: -40℃ to 75℃ (-E / DNV model)*

FCC ⬡ CE ⬡ cUL ⬡ ⊠ ⬡ RoHS ⬡ DNV ⬡ cUL Class I Division II for Group A,B,C,D

OVERVIEW

The Lantech IES-0008T is a slim type 8-Port 10/100BaseTX Industrial Switch. To increase reliability, it provides redundant power design with polarity reverse protection. It can auto detect power inputs and supports wide input range from 9V to 56VDC.

The IES-0008T 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, IES-0008T 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.
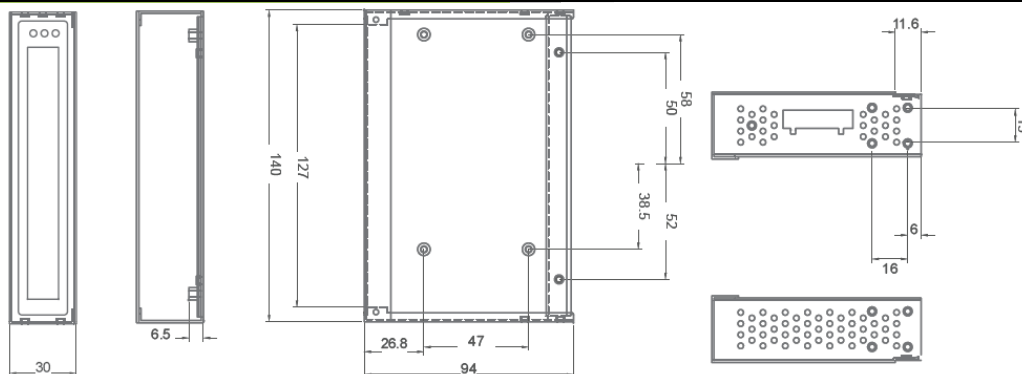
IES-0008T is compact in size and easy to be installed with DIN rail and wall mount kits. IES-0008T is applicable in many kinds of industrial environments. UL Class I Division II certification also makes it a best choice in inflammable environment.

DNV-Type Approval IES-0008T-DNV model is also available. It meets with the most critical test criteria in DNV Type test directives consisting of MED (Marine Equipment Directive), EMC (Electromagnetic Compatibility Directive) and LVD (Low Voltage Directive) in which vibration, high voltage, compass safe distance, salt mist tests, humidity etc are conducted to ensure the switch sustaining the harsh on-board environments often founded in Ships, Crafts and Offshore platforms.

FEATURES & BENEFITS

- **8-port 10/100TX Slim Type industrial switch**
- **Supports ingress packet filter and egress rate limit**
- **Conforms to IEEE 802.3u 100Base-TX/100Base-FX**
  - *Flow control on full-duplex*
  - *Back pressure on half-duplex*
- **RJ-45 ports support auto MDI/MDI-X Function**
- **Store-and-forward switching architecture**
- **Wide-range redundant power design**

- **Power polarity reverse protection**
- **Relay alarm output for power failure events**
- **DIN rail and wall mount design with IP-30 enclosure**
- **UL Class I Division II for Group A,B,C and D hazardous location**
- **DNV-Type Approval IES-0008T-DNV model is available**
- **-E / DNV model supports wide operating temp. (-40℃~ 75℃)**

DIMENSIONS (unit=mm)

SPECIFICATION

Hardware Specification

Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX Fast Ethernet IEEE802.3x Flow Control and Back-pressure
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port
Memory Buffer	448Kbits
Mac Address	2K MAC address table
Connectors	10/100TX: 8 x RJ-45 with auto MDI/MDI-X function
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5, 6cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5, 6 cable EIA/TIA-568 100-ohm (100m)
Protocol	CSMA/CD
LED	Per unit: Power 1 (Green), Power 2 (Green), Fault (Red) Per port: Link/Active (Green), Full duplex/Collision (Yellow)
Reserve polarity protection	Present
Overload current protection	Present
Power Supply	24VDC (9~56VDC) /-24VDC(-9 ~ -56 VDC),12~36VAC*, Redundant power with polarity reverse protect function and removable terminal block
Power	4.71 Watts

Consumption	
Operating Humidity	5% ~ 95% (Non-condensing)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F (-E / DNV model)
Storage Temperature	-40°C~85°C / -40°F~185°F
Case Dimension	Metal case. IP-30, 30mm (W) x 95mm (D) x 140mm (H)
EMI & EMS	FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (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
Safety	UL, cUL, CE/EN60950-1 UL Class I Division II for Group A,B,C and D hazardous location
Stability Testing	IEC60068-2-32 (Free fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration)
MTBF	388566 hrs
Warranty	5 years

*Optional

ORDERING INFOMATION

- **IES-0008T…………...……….......P/N: 8350-620**
  8 10/100TX Industrial Switch, Standard Operating Temperature (-20°C~60°C)
- **IES-0008T-E………..……...........P/N: 8350-621**
  8 10/100TX Industrial Switch, Wide Operating Temperature (-40°C~75°C)
- **IES-0008T-DNV..…………….........P/N: 8350-620DNV**
  8 10/100TX Industrial Switch, Wide Operating Temperature (-40°C~75°C);
  DNV Type Approved for maritime application
  *Redundant power without polarity reverse protect function
- **IES-0008T-AC..………...……........P/N: 8350-620-AC**
  8 10/100TX Industrial Switch, Standard Operating Temperature (-20°C~60°C); 12~36VAC
- **IES-0008T-E-AC.……..……..........P/N: 8350-621-AC**
  8 10/100TX Industrial Switch, Wide Operating Temperature (-40°C~75°C); 12~36VAC
- **IES-0008T-DNV-AC………........P/N: 8350-620DNV-AC**
  8 10/100TX Industrial Switch, Wide Operating Temperature (-40°C~75°C);
  DNV Type Approved for maritime application; 12~36VAC
  *Redundant power without polarity reverse protect function

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)

Datasheet Version 1.0