

# IPES-0016

16 10/100TX PoE at/af Industrial Unmanaged Ethernet Switch



## OVERVIEW

Lantech IPES-0016 is a high performance 16 10/100TX industrial Ethernet switch w/16 PoE 802.3af/at ports.

### **Galvanic isolation for dual 24V/48V wide input range**

The IPES-0016 supports IEEE802.3at/af standard which can feed HI-power up to 30W at each PoE port for big power consumption devices like PTZ IP camera, high power wireless AP etc. Maximal PoE budget supports up to 100W at 24V input.

The IPES-0016-24V accepts power input 9~36VDC and is compliant with ISO 7637-2 which protects switch from being damaged by high voltage that could be found at vehicle cranky start.

48V model accept 45~56VDC power input and can feed 48V output for PoE feeding in vehicle at max 240W @48V input.

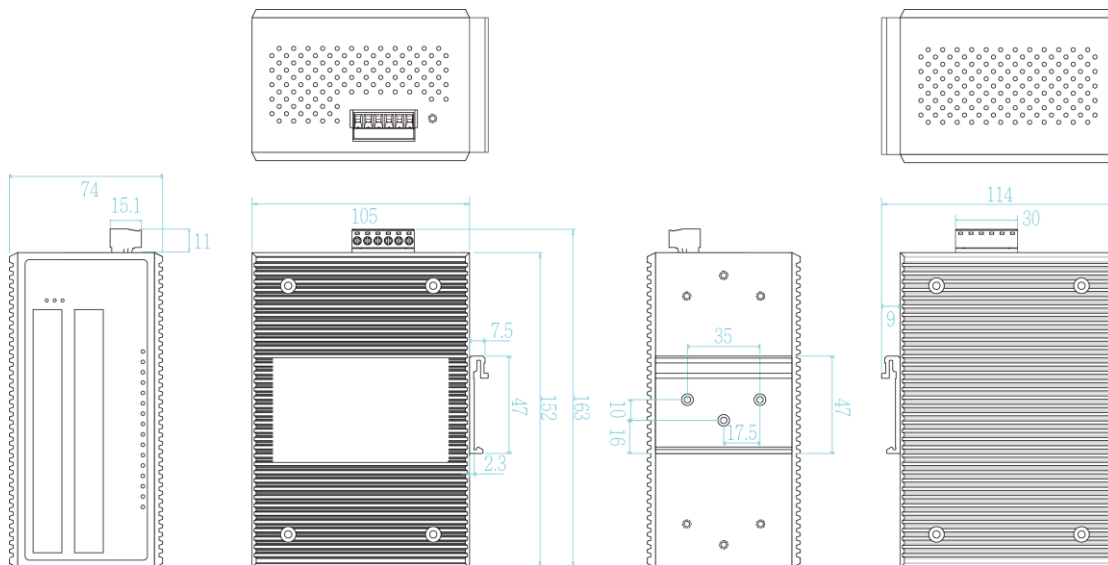
### **E-marking certificate, High reliability and extended working temperature**

Lantech IPES-0016 provides ±2000V EFT and ±6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, Wireless backhaul, Semi-conductor factory and assembly lines.

The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

The E-marking certificate makes it the most suitable switch for bus, carriage, other vehicles application as well as for industrial areas.

## DIMENSIONS (unit=mm)



**SPECIFICATION**

Hardware Specification		
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure IEEE802.3at/af Power over Ethernet	30W (-14 Model: RJ-45 port # 1~#14 support IEEE 802.3at/af End-point, Alternative A mode. Per port provides up to 30W) Positive (VCC+): RJ-45 pin 1,2 Negative (VCC-): RJ-45 pin 3,6
Switch Architecture	Back-plane (Switching Fabric): 3.2Gbps	Power Consumption
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Galvanic Isolation
Mac Address	16K MAC address table	Case Dimension
Jumbo frame	10KB	Weight
Connectors	10/100TX: 16 x ports RJ-45 with Auto MDI/MDI-X function Power & P-Fail connector: 1 x 6-pole terminal block	Installation
Network Cable	10Base-T: 2-pair UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: 2-pair UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)	Relay Alarm
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green)	EMI & EMS
Operating Humidity	5% ~ 95% (Non-condensing)	Safety
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	Vehicle certificate
Storage Temperature	-40°C~85°C / -40°F~185°F	MTBF
Power Supply	Dual 9~36VDC (24V model) Dual 44~56VDC (48V model)	Warranty
PoE Budget	240W at 48V input (50-57VDC input is recommended for 802.3at 30W applications); 100W at 24V input; 80W at 12V input Higher PoE budget can be applied upon request. **	
PoE pin assignment	RJ-45 port # 1~#16 support IEEE 802.3at/af End-point, Alternative A mode. Per port provides up to	

\*Future Release  
\*\*Optional

**ORDERING INFORMATION**

- **IPES-0016-24V.....P/N: 8351-128**  
16 10/100TX Industrial Ethernet Switch w/16 PoE at/af up to 30W, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IPES-0016-14-24V.....P/N: 8351-1281**  
16 10/100TX Industrial Ethernet Switch w/14 PoE at/af up to 30W, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IPES-0016-48V.....P/N: 8351-1282**  
16 10/100TX Industrial Ethernet Switch w/16 PoE at/af up to 30W, dual 44V~56VDC input; -20°C to 60°C

- **IPES-0016-14-48V.....P/N: 8351-1283**  
16 10/100TX Industrial Ethernet Switch w/14 PoE at/af up to 30W, dual 44V~56VDC input; -20°C to 60°C
  - **IPES-0016-24V-E.....P/N: 8351-129**  
16 10/100TX Industrial Ethernet Switch w/16 PoE at/af up to 30W, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
  - **IPES-0016-14-24V-E.....P/N: 8351-1291**  
16 10/100TX Industrial Ethernet Switch w/14 PoE at/af up to 30W, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
  - **IPES-0016-48V-E.....P/N: 8351-1292**  
16 10/100TX Industrial Ethernet Switch w/16 PoE at/af up to 30W, dual 44V~56VDC input; -40°C to 75°C
  - **IPES-0016-14-48V-E.....P/N: 8351-1293**  
16 10/100TX Industrial Ethernet Switch w/14 PoE at/af up to 30W, dual 44V~56VDC input; -40°C to 75°C
- All part no. with WALL are models with wall mount kit instead of DIN Rail

**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)

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