

# IES-0016

## 16 10/100TX Industrial Unmanaged Ethernet Switch



### OVERVIEW

Lantech IES-0016 is a high performance 16 10/100TX industrial Ethernet switch.

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

The IES-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.

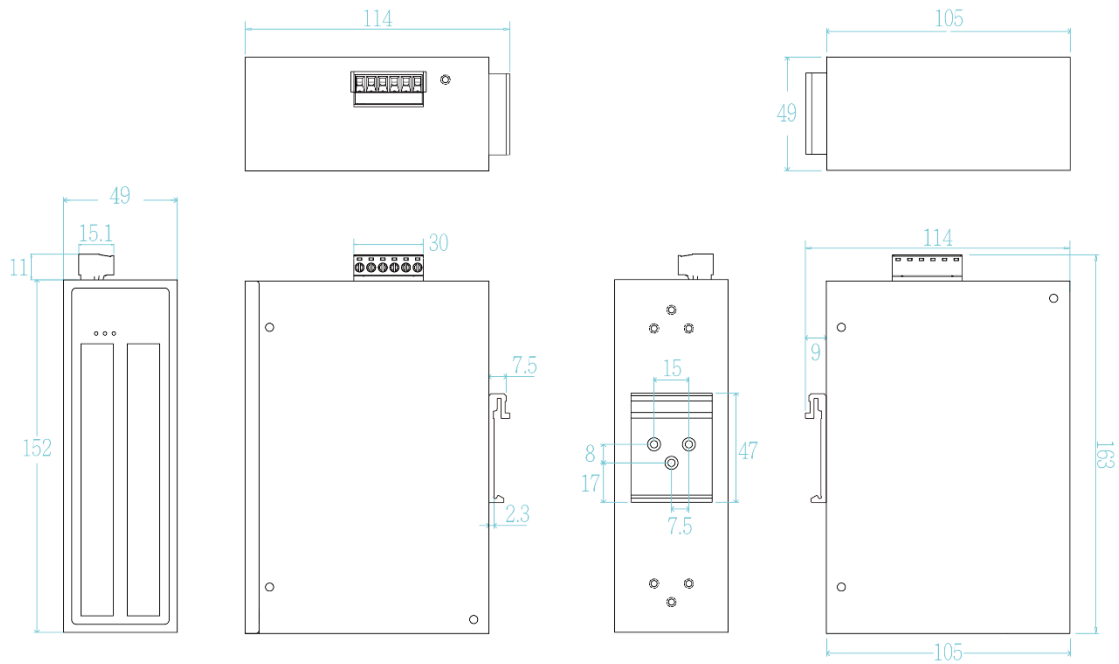
#### **E-marking certificate (-24V model), High reliability and extended working temperature**

Lantech IES-0016 provides  $\pm 2000V$  EFT and  $\pm 6000V$  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  $-40^{\circ}C$  to  $75^{\circ}C$ .

The E-marking certificate makes it the most suitable switch for bus, carriage, other vehicles application as well as for industrial areas. (-24V model)

### DIMENSIONS (unit=mm)



**SPECIFICATION**

Hardware Specification		Power Supply	9V~36VDC
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	Power	4.5W
Switch Architecture	Back-plane (Switching Fabric): 3.2Gbps	Consumption	
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Galvanic Isolation	Between power input and system/case ground Between Ethernet port and system/case ground Between power input and Ethernet port
Mac Address	16K MAC address table	Case Dimension	Metal case IP-30 49 (W) x 105 (D) x 152 (H) mm
Jumbo frame	10KB	Weight	900g
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	DIN Rail and Wall Mount** Design
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	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green)	EMI & EMS	FCC Class A, CE EN55011, CE EN55032, CE EN55024, CE EN61000-4-2, CE EN61000-4-3, CE EN61000-4-4, CE EN61000-4-5, CE EN61000-4-6, CE EN61000-4-8, CE EN61000-6-2, CE EN61000-6-4
Operating Humidity	5% ~ 95% (Non-condensing)	Safety	IEC/BS EN IEC 62368-1 2020/A11:2020
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	Vehicle certificate	E-Marking with E13 granted approval (-24V model)
Storage Temperature	-40°C~85°C / -40°F~185°F	MTBF	1,950,865hrs (standards: IEC 62380)
		Warranty	5 years

\*Future Release  
\*\*Optional

**ORDERING INFORMATION**

- **IES-0016-24V.....P/N: 8351-116**  
16 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input; -20°C to 60°C; E-Marked
- **IES-0016-24V-E.....P/N: 8351-117**  
16 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input; -40°C to 75°C; E-Marked

All part no. with WALL are models with wall mount kit instead of DIN Rail

**OPTIONAL ACCESSORIES**

**DIN Rail Power**

- **MDR-40 Series** 40W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC Input Range; Cooling by free air convection; RoHS2 ; Operating Temp. -20°C~70°C (ambient, derating each output at 4% per degree from 60°C ~ 70°C)
- **MDR-20 Series** 20W Single Output Industrial Din Rail Power; 85-264VAC / 120-370VDC 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)

**Lantech Communications Global Inc.**

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### Revision Record

Date	Contents of Revision	Rev.#	Revised By
2024/11/18	Add revision record	V1.51	Greg Tsai
2025/1/7	Add IEC/EN 62368	V1.52	Greg Tsai
20260318	ADD JUMBO FRAME	V1.6	RITA WU