Lantech™
Pioneering Industrial and IP Networks

IES-0016

16 10/100TX Industrial Unmanaged Ethernet Switch

- *Dual 9V~36VDC input compliant with ISO 7637-2*
- *Galvanic isolation protection (power input /Ethernet port to system; power input to Ethernet port)*
- *Relay alarm output for power fail and alarm*
- *E-marking certificate for vehicle application (-24V model)*

FC CE ♻ RoHS2 E13

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
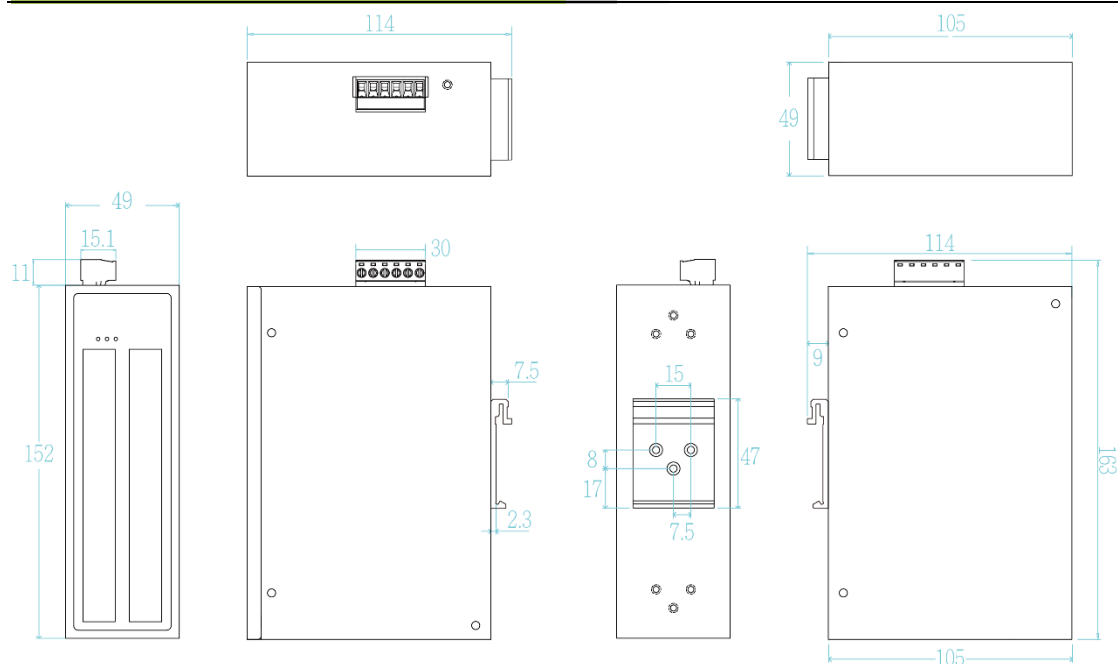Lantech IES-0016 provides ±2000V EFT and ±6000V ESD protection, which can reduce unstable situation caused by power line and Ethernet. It has high reliability and robustness coping with extensive EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, Wireless 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. (-24V model)

FEATURES & BENEFITS

- **16 10/100TX industrial Ethernet switch (Total 16 Ports Switch)**
- **Dual 9V~36VDC power input with ISO7637-2 compliance**
- **Back-plane (Switching Fabric): 3.2Gbps**
- **Provides EFT protection ±2000 VDC for power line**
- **Supports ±6000 VDC Ethernet ESD protection**
- **Galvanic isolation between power input and system/case ground; between Ethernet port and system/case ground; between power input and Ethernet port**
- **E-marking certificate for vehicle application (-24V model)**
- **Relay alarm output for power fail and alarm**
- **IP30 metal housing with DIN rail and Wall-mount** design**

DIMENSIONS (unit=mm)

SPECIFICATION

Hardware Specification

Standards	IEEE802.3 10Base-T Ethernet
	IEEE802.3u 100Base-TX
	IEEE802.3x Flow Control and Back Pressure
Switch Architecture	Back-plane (Switching Fabric): 3.2Gbps
Transfer Rate	14,880pps for Ethernet port
	148,800pps for Fast Ethernet port
Mac Address	16K MAC address table
Connectors	10/100TX: 16 x ports RJ-45 with Auto MDI/MDI-X function
	Power & P-Fail connector: 1 x 6-pole terminal block
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)
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red);
	Ethernet port: Link/Activity (Green)
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 model)
Storage Temperature	-40°C~85°C / -40°F~185°F
Power Supply	9V~36VDC

Power Consumption	4.5W
Galvanic Isolation	Between power input and system/case ground
	Between Ethernet port and system/case ground
	Between power input and Ethernet port
Case Dimension	Metal case IP-30
	49 (W) x 105 (D) x 152 (H) mm
Weight	900g
Installation	DIN Rail and Wall Mount** Design
Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
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
Safety	IEC/BS EN IEC 62368-1 2020/A11:2020
Vehicle certificate	E-Marking with E13 granted approval (-24V model)
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)

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