

IES-0016

16 10/100TX Industrial Unmanaged Ethernet Switch

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



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 $\pm 2000\text{V}$ EFT and $\pm 6000\text{V}$ 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.

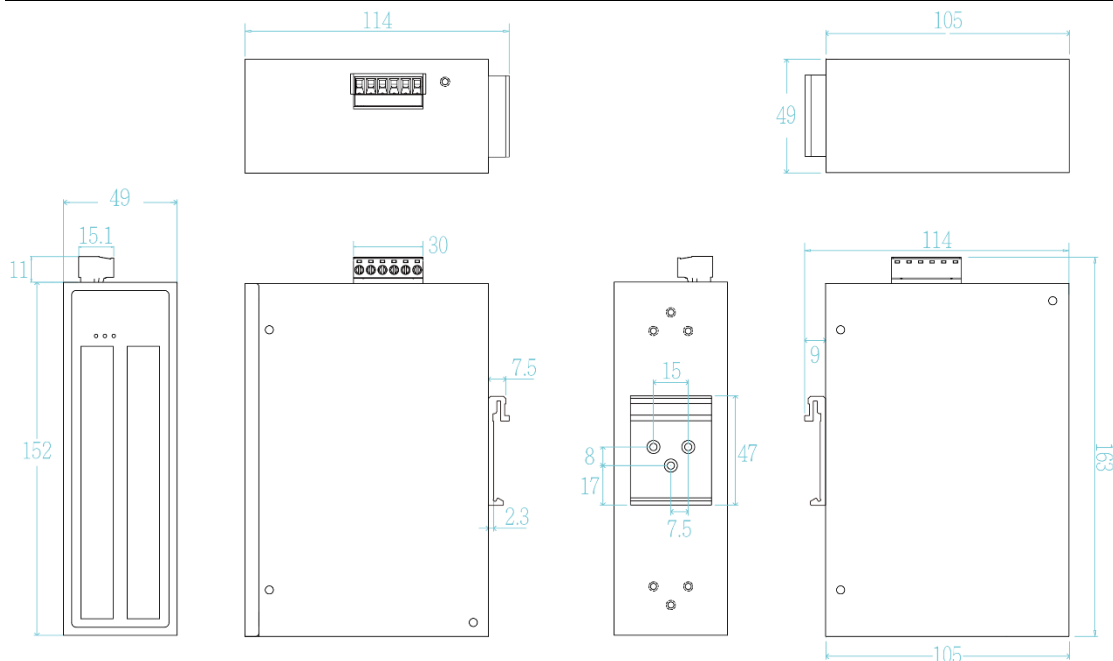
The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C .

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~60VDC power input and dual 9V~36VDC power input for 24V model 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 case ground; between Ethernet port and 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		Consumption	
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	Galvanic Isolation	Between power input and case ground Between Ethernet port and case ground Between power input and Ethernet port
Switch Architecture	Back-plane (Switching Fabric): 3.2Gbps	Case Dimension	Metal case, IP-30 49 (W) x 105 (D) x 152 (H) mm
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Weight	900 g
Mac Address	16K MAC address table	Installation	DIN Rail and Wall Mount** Design
Connectors	10/100TX: 16 x ports RJ-45 with Auto MDI/MDI-X function Power & P-Fail connector: 1 x 6-pole terminal block	Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
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)	EMI & EMS	FCC Class A, 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
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green)	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Operating Humidity	5% ~ 95% (Non-condensing)	Vehicle certificate	E-Marking with E13 granted approval* (-24V model)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	MTBF	NA
Storage Temperature	-40°C~85°C / -40°F~185°F	Warranty	5 years
Power Supply	9V~60VDC 9V~36VDC(24V model)		
Power	10W		

*Future Release
**Optional

ORDERING INFORMATION

- **IES-0016-24V.....P/N: 8351-116**
16 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IES-0016-24V-E.....P/N: 8351-117**
16 10/100TX Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637-2; -40°C to 75°C
- **IES-0016P/N: 8351-1161**
16 10/100TX Industrial Ethernet Switch, dual 9V~60VDC input, -20°C to 60°C
- **IES-0016-EP/N: 8351-1171**
16 10/100TX Industrial Ethernet Switch, dual 9V~60VDC 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

- **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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