

# IGS-0016

## 16 10/100/1000T Industrial Unmanaged Ethernet Switch

- Dual 9V~36VDC input compliant with ISO 7637-2
- Galvanic isolation protection (power input /Ethernet port to system/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 IGS-0016 is a high performance 16 10/100/1000TX industrial Ethernet switch.

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

The IGS-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 IGS-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.

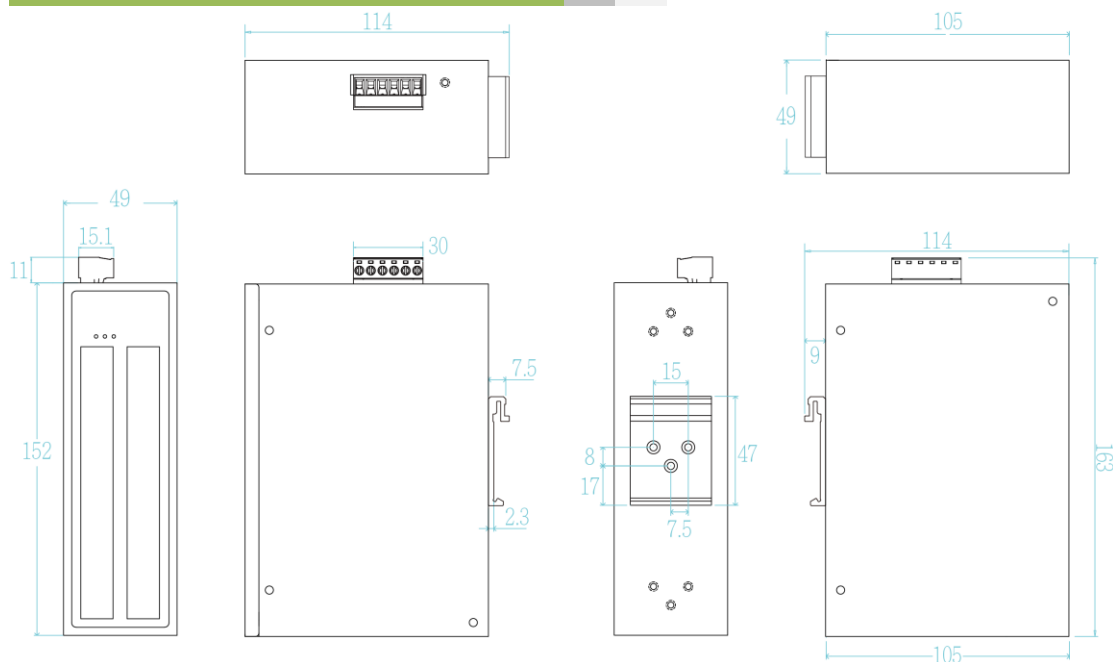
The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

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 10/100/1000T industrial Ethernet switch (Total 16 Ports Switch)
- Dual 9V~36VDC with ISO7637-2 compliance
- Back-plane (Switching Fabric): 3.2Gbps
- Provides EFT protection  $\pm 2000$  VDC for power line
- Supports  $\pm 6000$  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		Power Supply	9V~36VDC
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	Power Consumption	5W
Switch Architecture	Back-plane (Switching Fabric): 3.2Gbps	Galvanic Isolation	Between power input and system/case ground Between Ethernet port and system/case ground Between power input and Ethernet port
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Case Dimension	Metal case IP-30 49 (W) x 105 (D) x 152 (H) mm
Mac Address	16K MAC address table	Weight	900 g
Connectors	100/1000TX: 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)	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	1,852,949hrs (standards: IEC 62380)
Storage Temperature	-40°C~85°C / -40°F~185°F	Warranty	5 years

\*Future Release  
\*\*Optional

**ORDERING INFORMATION**

- **IGS-0016-24V.....P/N: 8351-122**  
16 10/100/1000T Industrial Ethernet Switch, dual 9V~36VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IGS-0016-24V-E.....P/N: 8351-123**  
16 10/100/1000T Industrial Ethernet Switch, dual 9V~36VDC input, compliant with ISO7637-2; -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)

**Lantech Communications Global Inc.**

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