

# 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.

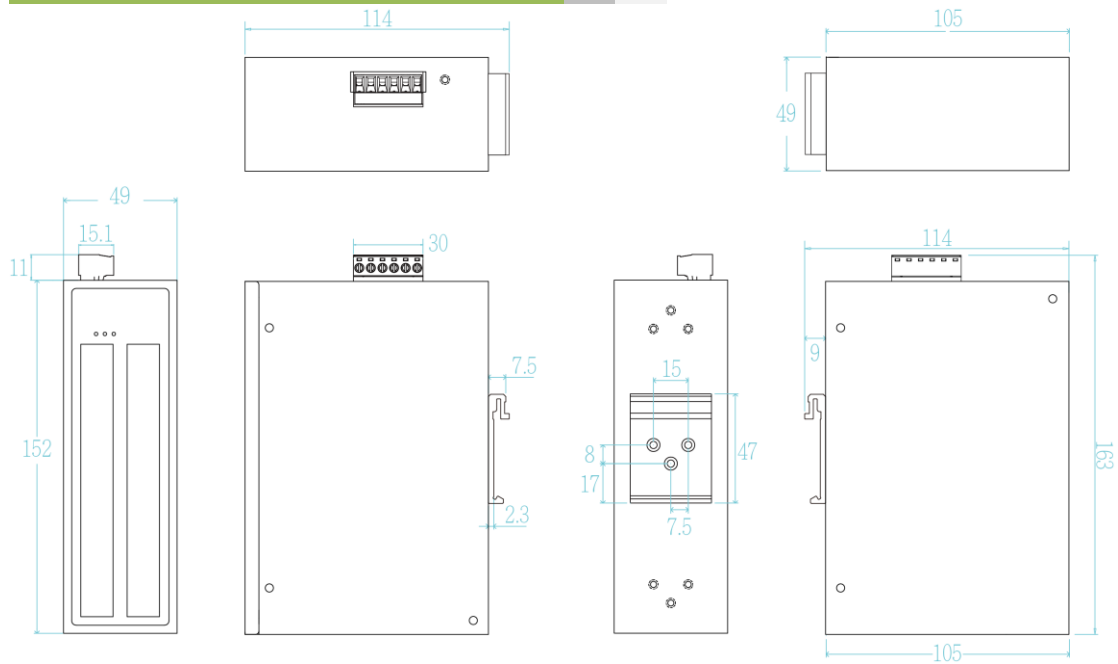
The -E model can be used in extreme environments with an operating temperature range of -40°C to 75°C.

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 Consumption	5W
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	Galvanic Isolation	Between power input and system/case ground Between Ethernet port and system/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	100/1000TX: 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 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
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	1,852,949hrs (standards: IEC 62380)
Storage Temperature	-40°C~85°C / -40°F~185°F	Warranty	5 years
Power Supply	9V~36VDC		

\*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.**

**[www.lantechcom.tw](http://www.lantechcom.tw)  
[info@lantechcom.tw](mailto:info@lantechcom.tw)**

© 2019 Copyright Lantech Communications Global Inc. all rights reserved.  
The revise authority rights of product specifications belong to Lantech Communications Global Inc.  
Lantech may make changes to specification and product descriptions at anytime, without notice.