

# IGS-0008B

## 8 10/100/1000T Industrial Unmanaged Ethernet Switch ; 12V input model

- Dual 9V~60VDC input(12V 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 (-12V model)



### OVERVIEW

Lantech IGS-0008B is a high performance all 8 10/100/1000T industrial Ethernet switch with 12V input selection.

#### **Galvanic isolation for dual 12V input range**

The IGS-0008B-12V accepts power input 9~60VDC and is compliant with ISO 7637-2 Pulse 5a which protects switch from being damaged by high voltage that could be found at vehicle cranky start.

#### **E-marking certificate, High reliability and extended working temperature**

Lantech IGS-0008B 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 EM/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, wireless backhaul, Semi-conductor factory and assembly lines.

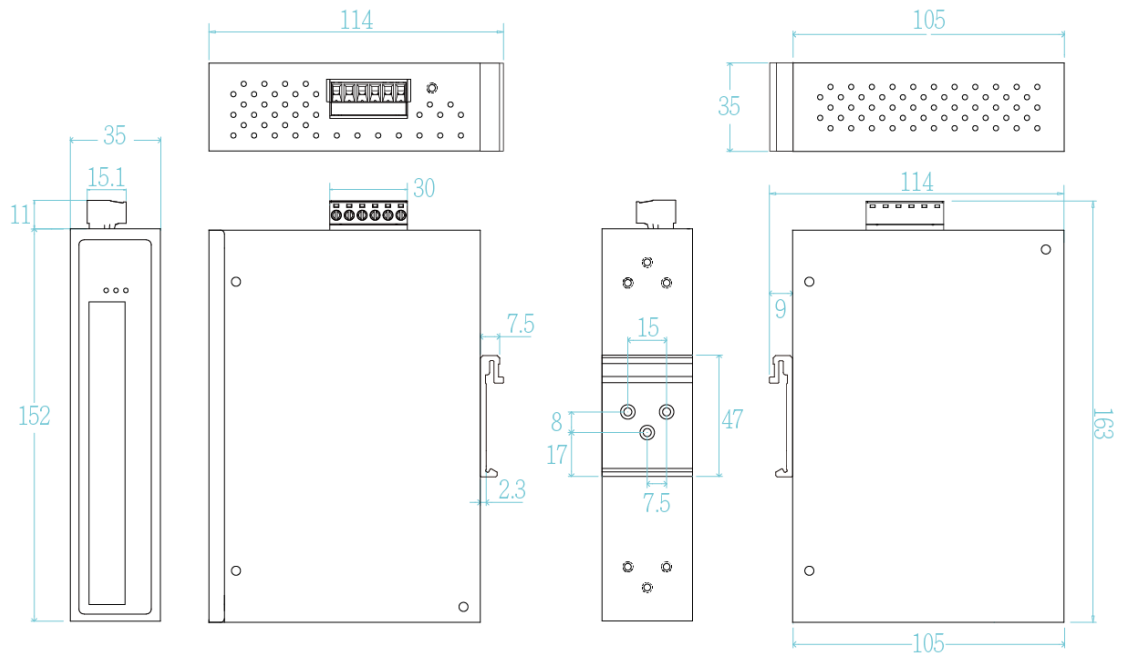
The -E model can be used in extreme environments with an operating temperature range of  $-40^{\circ}C$  to  $75^{\circ}C$ .

The E-marking certificate makes it the most suitable switch for bus, carriage, other vehicles application as well as for industrial areas (-12V model)

### FEATURES & BENEFITS

- 8 10/100/1000T industrial Ethernet switch (Total 8 Ports Switch)
- Dual 9V~60VDC power input for 12V model with ISO7637-2 compliance
- Back-plane (Switching Fabric): 16Gbps
- Provides EFT protection  $\pm 2000$  VDC for power line.
- Supports  $\pm 6000$  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 (-12V 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~60VDC(12V model)
Standards	IEEE802.3 10Base-T Ethernet IEEE802.3u 100Base-TX IEEE802.3x Flow Control and Back Pressure	Power	5W
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps	Consumption	
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Galvanic Isolation	Between power input and case ground Between Ethernet port and case ground Between power input and Ethernet port
Mac Address	16K MAC address table	Case Dimension	Metal case, IP-30 43 (W) x 105 (D) x 152 (H) mm
Connectors	10/100/1000T: 8 x ports RJ-45 with Auto MDI/MDI-X function Power & P-Fail connector: 1 x 6-pole terminal block	Weight	900 g
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)	Installation	DIN Rail and Wall Mount** Design
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green) ; Speed (Amber)	Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Operating Humidity	5% ~ 95% (Non-condensing)	EMI & EMS	FCC Class A, CE EN55032 Class A, 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
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Storage Temperature	-40°C~85°C / -40°F~185°F	Vehicle certificate	E13 marking (-12V model)
		MTBF	NA
		Warranty	5 years

\*Future Release

\*\*Optional

**ORDERING INFORMATION**

- **IGS-0008B-12V.....P/N: 8351-114**  
8 10/100/1000T Industrial Ethernet Switch, dual 9V~60VDC input; compliant with ISO7637-2; -20°C to 60°C
- **IGS-0008B-12V-E.....P/N: 8351-115**  
8 10/100/1000T Industrial Ethernet Switch, dual 9V~60VDC input, compliant with ISO7637-2; -40°C to 75°C

## OPTIONAL ACCESSORIGS

### 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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