

# 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)
- EN50155/50121-3-2/50121-4 and EN45545-2 Fire & Smoke verification



### 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 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 EMI/RFI phenomenon, environmental vibration and shocks usually found in Automation, transportation, wireless backhaul, Semi-conductor factory and assembly lines.

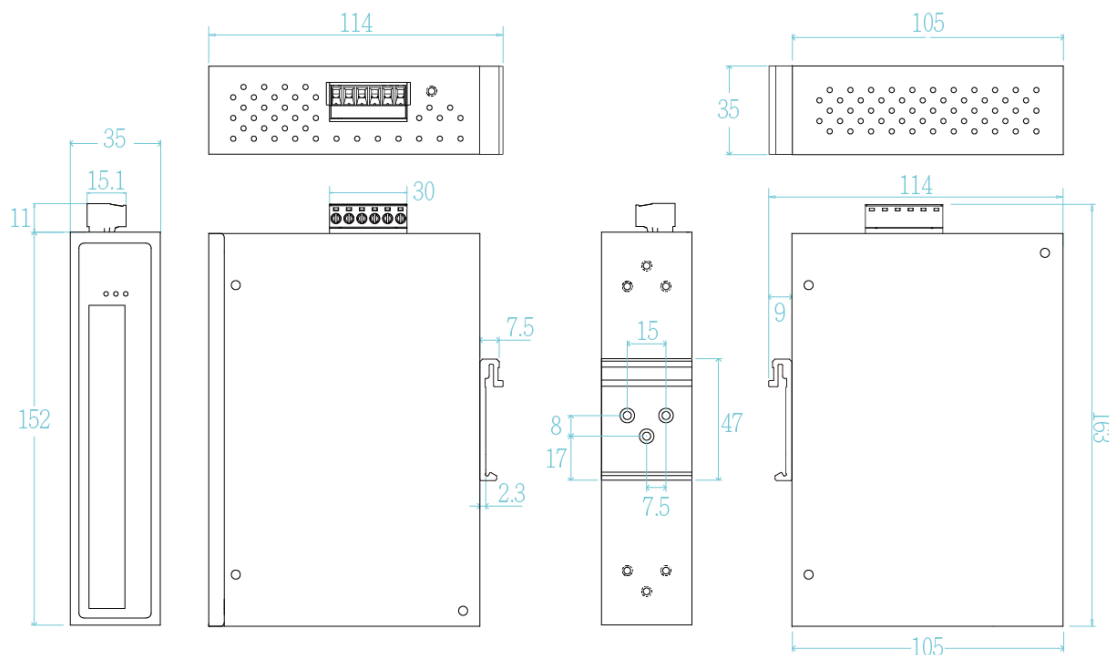
The -E model can be used in extreme environments with an operating temperature range of  $-40^{\circ}C$  to  $75^{\circ}C$ .

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
- EN50155/50121-3-2/50121-4 and EN45545-2 Fire & Smoke verification
- 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	Case Dimension	Between Ethernet port and case ground Between power input and Ethernet port Metal case, IP-30 43 (W) x 105 (D) x 152 (H) mm
Switch Architecture	Back-plane (Switching Fabric): 1.6Gbps	Weight	900 g
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port	Installation	DIN Rail and Wall Mount** Design
Mac Address	16K MAC address table	Relay Alarm	Provides one relay output for power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
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	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, CE EN61000-6-2
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)	Verifications & Report	EN50155/EN50121-3-2/EN50121-4 verification EN45545-2 R13/R22/R23/R24/R25 (EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1 & 2) Fire & Smoke verification; E-mark certificate
LED	Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red); Ethernet port: Link/Activity (Green) ; Speed (Amber)	Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Operating Humidity	5% ~ 95% (Non-condensing)	Vehicle certificate	E13 marking (-12V model)
Operating Temperature	-20°C~60°C / -4°F~140°F (Standard model) -40°C~75°C / -40°F~167°F(-E model)	MTBF	1,590,500hrs (IEC62830 standards)
Storage Temperature	-40°C~85°C / -40°F~185°F	Warranty	5 years
Power Supply	9V~60VDC(12V model)		
Power Consumption	5W		
Galvanic Isolation	Between power input and case ground		

\*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)

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