

IES-0208T (IP67/IP43)

8 10/100TX + 2 GigaT IP67/IP43 rated Industrial

Switch

- EN50155 verification / E-mark certified
- Provides M12 connector with IP67 or IP43 rated protection
- Wide Operating Temperature from -40°C to 75°C
- Wide range dual power inputs 9.5~56VDC with optional bypass protection for 1-pair GigaT ports
- 110V single power input 43~137.5V for 110V model



IP67 Rated



IP43 Rated

OVERVIEW

Lantech IES-0208T (IP67/IP43) is an 8 10/100 Base-TX+2GigaT with M12-connector unmanaged industrial switch for IP67 or IP43 rated protection, which meets the high reliability requirements demanded by industrial rolling stock applications.

The IES-0208T (IP67/IP43) is designed to meet with critical network environment with IP67/43 enclosure and M12 connectors for protection against dust and water. IP67 model can be immersed 1 meter under water for 30 minutes long, so it is the best to place in the highly damp and moisture area in the train, vehicle or rail-side. Both have passed harsh environmental testing to comply with Industrial EMI and Safety standards as well as stability testing such as Free fall, Shock, and Vibration. For a greater flexibility in application the IES-0208T (IP67/IP43) supports an extended operating

temperature range from -40°C to 75°C.

The wide range dual power input from 9.5V~56V fits with most of train/vehicle usage. The 110V model offers dual power supply that can be powered from 43V to 137.5VDC.

With EN45545-2 Fire & Smoke, EN50155 verification and certification, the IES-0208T (IP67/IP43) is best for railway and vehicle applications.

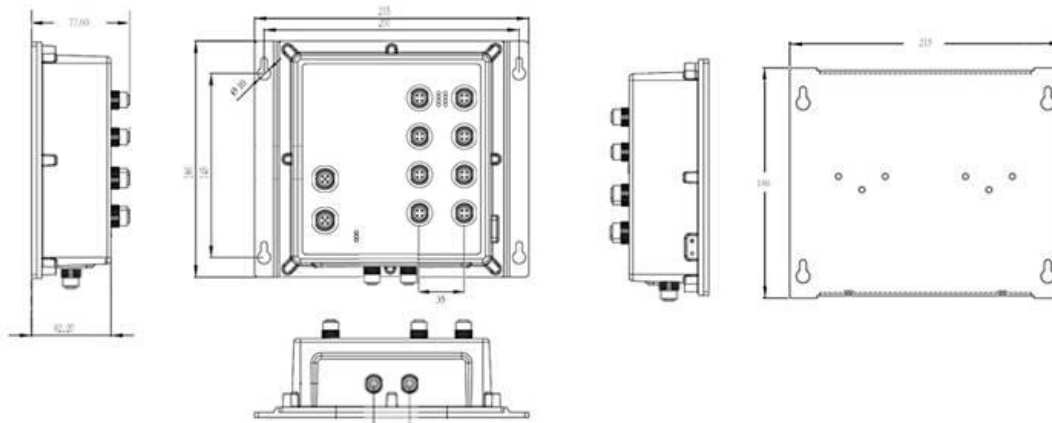
The optional bypass relay is set to bypass the switch to the next one when power is off in order to protect the network from crashing. Lantech bypass caters to remain in bypass mode until the switch is completely booting up when power is back to avoid another network lost.

FEATURES & BENEFITS

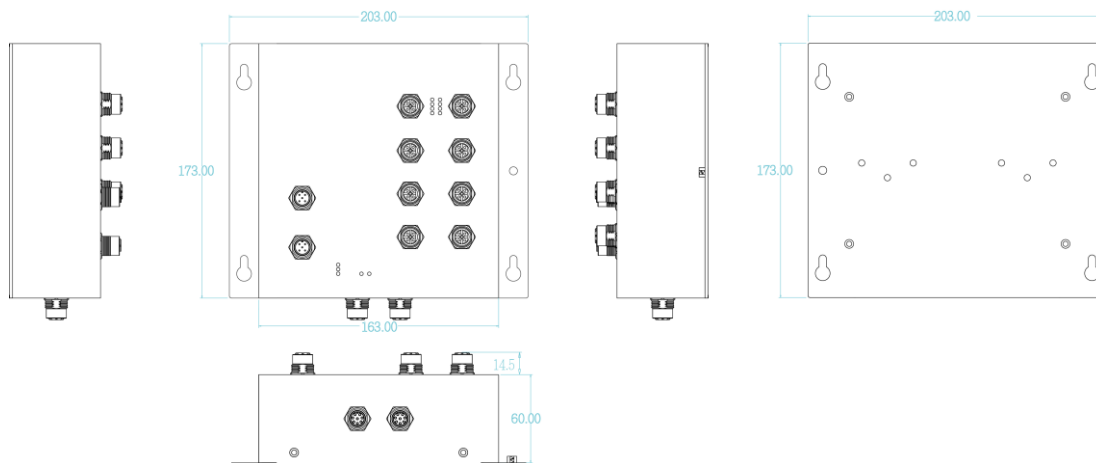
- 8 10/100TX+2GigaT Unmanaged Industrial Switch with M12 connectors and IP67/43 rated protection
- Dual Power Design with wide DC9.5V~56V input
- 110V model support dual 43~137.5VDC power
- Back-plane (Switching Fabric): 3.6 Gbps
- 8K MAC address table
- Wide Operating Temperature (-40°C ~75°C)
- Din rail** and wall mount design
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration verification
- E-mark certified
- Bypass protection** - Bypass failed switch caused by power failure of switch to protect network intactness (9.5~56V model)

DIMENSIONS (unit=mm)

IP67 model



IP43 model



SPECIFICATIONS

Hardware Specification		
IEEE Standard	IEEE802.3 10BASE-T Ethernet IEEE802.3u 100BASE-T Ethernet IEEE802.3ab 1000BASE-T Ethernet IEEE802.3x Flow Control and Back Pressure	43~137.5VDC on 110V model with input isolation
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	Power 10W at 12/24/48V input Consumption 13.5W at 110V input
Mac Address	8K MAC address table	Operating Humidity 5% to 95% (Non-condensing)
Connector	10/100T: 8 x M12, 4-pole D-coded, Female with auto MDI/MDI-X function 10/100/1000T : 2 x M12 8-pole A-coded with auto MDI/MDI-X function Power connector: 1 x M12, 5-pole A-coded, Male	Operating Temperature -40°C ~ 75°C (-40°F ~ 167°F)
Bypass Protection**	High-speed copper switching Support 1 pair Giga-T bypass (9.5~56V model)	Storage Temperature -40°C ~ 85°C (-40°F ~ 185°F)
Protocol	CSMA/CD	Case Dimension Aluminum case, IP-67, 215mm(W)x185mm(H)x71mm(D) Aluminum case, IP-43 202mm(W)x172mm(H)x62.5mm(D)
LED	Per unit: Power 1 (Green), Power 2 (Green), Ethernet: Link/Activity (Green) GigaT: Link/Activity (Green)	Weight 1.4kgs (IP67); 1.2kgs(IP43)
Power Supply	9.5~60DC on standard model	Installation Din Rail**, Wall Mount Design
		EMC FCC Class A, CE EN61000-4-2 (ESD), CE EN61000-4-3 (RS), CE EN-61000-4-4 (EFT), CE EN61000-4-5 (Surge), CE EN61000-4-6 (CS), CE EN61000-4-8 (Magnetic Field), CE EN55022 Class A, CE EN55024
		Stability Testing EN61373 (Shock and Vibration)
		Verifications & EN50155/EN50121-3-2/EN50121-4 verification

report	EN45545-2 R24/R25 (EN ISO 4589-2, EN ISO 5659-2, NF X70-100-1 & 2) Fire & Smoke verification E-Mark E4 Certificate
Warranty	5 years

*Pending
**Optional

ORDERING INFORMATION

All model packages include M12 caps and wall mount bracket. All standard models are non-coating, optional coating models are available with -C model name.

- **IES-0208T-67.....P/N: 8360-542**
8 10/100TX+2 GigaT IP67 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C
- **IES-0208T-67-BT.....P/N: 8360-5422**
8 10/100TX+2 GigaT IP67 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C, 1-pair Giga-T Bypass
- **IES-0208T-43.....P/N: 8360-5421**
8 10/100TX+2Giga T IP43 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C
- **IES-0208T-43-BT.....P/N: 8360-5423**
8 10/100TX+2Giga T IP43 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C, 1-pair Giga-T Bypass
- **IES-0208T-67-110V.....P/N: 8360-543**
8 10/100TX+2GigaT IP67 rated Industrial Switch w/M12 connectors; dual 43~137.5VDC input; -40~75C
- **IES-0208T-43-110V.....P/N: 8360-5431**
8 10/100TX+2GigaT IP43 rated Industrial Switch w/M12 connectors; dual 43~137.5VDC input; -40~75C

OPTIONAL ACCESSORIES

M12/M23 Connector & Cable

- **ECON120005PF** 5 Pin M12 Power Female Connector
- **ECONM12-5P(F)70CM CABLE** 5 Pin M12 Power Female 90C angle Connector+ 70 CM Cable
- **ECAB124030MJS** 4 Pin M12 RJ45 Male 3 Meters; STP Cable

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