# IPES-0208GF (IP67/IP54) 

8 10/100TX PoE at/af + 2 1000FX Industrial
Ethernet Switch

- EN50155verifiaction / E-mark certified
- Provides M12 connector with IP67 or IP54 rated
protection
- IEEE802.3at/af up to 30W PoE output
- 12 V power input boost to 54 V output
- Optional $72 \mathrm{~V} / 110 \mathrm{~V}$ input steps down to 54 V output for IEEE 802.3at/af max.80W
- Wide Operating Temperature from $-40^{\circ} \mathrm{C}$ to $75^{\circ} \mathrm{C}$
- Wide range dual power inputs


IP67 Rated


IP54 Rated

## OVERVIEW

Lantech IPES-0208GF (IP67/IP54) is an 8 10/100 Base-TX+2 GigaFX w/8 PoE at/af injectors with M12-connctor unmanaged industrial switch for IP67 or IP54 rated protection, which meets the high reliability requirements demanded by industrial rolling stock applications.

The IPES-0208GF (IP67/IP54) supports IEEE802.3at/af standard which can feed HI -power up to 30 W at each PoE port for big power consumption devices like PTZ IP camera, High power wireless AP etc. The IPES-0208GF is able to take $12 / 24 \mathrm{~V}$ input and boost to 54 V output for PoE feeding in vehicle use with IEEE802.3at/af standard up to 30W per PoE port with maximum 70 W output. $72 \mathrm{~V} / 110 \mathrm{~V}$ input model can feed 48 V PoE at max 80 W .

The IPES-0208GF (IP67/IP54) is designed to meet with critical network environment with IP67/IP54 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 IPES0208GF (IP67/IP54) supports an extended operating temperature range from $-40^{\circ} \mathrm{C}$ to $75^{\circ} \mathrm{C}$.

The wide range dual power input from $9.5 \mathrm{~V} \sim 56 \mathrm{~V}$ fits with most of train/vehicle usage. The 72 V model offers dual power supply that can be powered from 50.4 V to 90 VDC while 110 V model provides dual 43 V to 137.5 V inputs.

With EN45545-2 Fire \& Smoke, EN50155 verification and Emark certification, the IPES-0208GF (IP67/IP54) is best for railway and vehicle applications.

## FEATUR=S \& BENEFTIS

- 8 10/100TX+2GigaFX Unmanaged Industrial Switch with 8 PoE at/af M12 connectors and IP67/IP54 rated protection
- Supports IEEE802.3at/af feeding power up to 30W per PoE port at 12/24/48VDC
- Accept input voltage 12 V and boost to 54 V for PoE 802.3at/af maximum 70W output
- Dual Power Design with wide DC12/24/48V
- Back-plane (Switching Fabric): 5.6Gbps
- 8K MAC address table
- Wide Operating Temperature ( $-40^{\circ} \mathrm{C} \sim 75^{\circ} \mathrm{C}$ )
- Din rail ${ }^{\star *}$ and wall mount design
- EN45545-2 Fire \& Smoke, EN50155 and EN61373 shock/vibration verification


## - E-mark certified

- Optional 72V model can accept dual 72V power input


## and feed 48 V for PoE at/af at max 80 W

- Optional 110 V model can accept dual 110 V power input and feed 48 V for PoE at/af at max 80 W


## DIMENSIONS (unit=mm)

IP67 model


IP54 model



| Power Budget | 240W for 45~56V input <br> ( 54 V input is recommended for PTZ or heater applications) <br> 70 W for 12 V input <br> 120 W for 24 V input <br> 80W for 72V Input <br> 80 W for 110V Input |
| :---: | :---: |
| Operating Humidity | 5\% to 95\% (Non-condensing) |
| Operating <br> Temperature | $-40^{\circ} \mathrm{C} \sim 75^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F} \sim 167^{\circ} \mathrm{F}\right)$ |
| Storage <br> Temperature | $-40^{\circ} \mathrm{C} \sim 85^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F} \sim 185^{\circ} \mathrm{F}\right)$ |
| Case Dimension | Aluminum case. IP-67, <br> $215 \mathrm{~mm}(\mathrm{~W}) \times 192.5 \mathrm{~mm}(\mathrm{H}) \times 91.2 \mathrm{~mm}(\mathrm{D})$ <br> Aluminum case, IP-54 <br> $182 \mathrm{~mm}(\mathrm{~W}) \times 179 \mathrm{~mm}(\mathrm{H}) \times 91 \mathrm{~mm}(\mathrm{D})$ |
| Weight | 1.4kgs (IP67); 1.2kgs(IP54) |
| Installation | Din Rail**, Wall Mount Design |
| EMC | FCC Class A, <br> CE EN61000-4-2 (ESD), <br> CE EN61000-4-3 (RS), <br> CE EN-61000-4-4 (EFT), <br> CE EN61000-4-5 (Surge), <br> CE EN61000-4-6 (CS), <br> CE EN61000-4-8 (Magnetic Field), CE EN55022 Class A, CE EN55024 |
| Stability Testing | EN61373 (Shock and Vibration) |
| 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 |
| MTBF | 992,412 hrs (standards: IEC 62830) |
| Warranty | 5 years |
|  | *Pending <br> **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.

- IPES-0208GF-SX-67-12V

8 10/100TX PoE at/af + 2 GigaSX 550M IP67 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C

- IPES-0208GF-SX-54-12V P/N: 8361-5482
8 10/100TX PoE at/af + 2 GigaSX 550M IP54 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C
- IPES-0208GF-LX-67-12V P/N: 8361-549
8 10/100TX PoE at/af + 2 GigaLX 10KM IP67 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C
- IPES-0208GF-LX-54-12V

P/N: 8361-5492
8 10/100TX PoE at/af + 2 GigaLX 10KM IP54 rated Industrial Switch w/M12 connectors; dual 9.5~56V input; -40~75C

- IPES-0208GF-SX-67-72V. $\qquad$
8 10/100TX PoE at/af + 2 GigaSX 550M IP67 rated Industrial Switch w/M12 connectors; dual 50.4~90V input; -40~75C
IPES-0208GF-SX-54-72V $\qquad$ .P/N: 8361-5501
8 10/100TX PoE at/af + 2 GigaSX 550M IP54 rated Industrial Switch w/M12 connectors; dual 50.4~90V input; -40~75C
IPES-0208GF-LX-67-72V
P/N: 8361-551
8 10/100TX PoE at/af + 2 GigaLX 10KM IP67 rated Industrial Switch w/M12 connectors; dual 50.4~90V input; -40~75C
IPES-0208GF-LX-54-72V
.P/N: 8361-5511
8 10/100TX PoE at/af + 2 GigaLX 10KM IP54 rated Industrial Switch w/M12 connectors; dual 50.4~90V input; -40~75C
IPES-0208GF-SX-67-110V
P/N: 8361-552
8 10/100TX PoE at/af + 2 GigaSX 550M IP67 rated Industrial Switch w/M12 connectors; dual 43~137.5V input; -40~75C

8 10/100TX PoE at/af + 2 GigaSX 550M IP54 rated Industrial Switch w/M12 connectors; dual 43~137.5V input; -40~75C

- IPES-0208GF-LX-67-110V P/N: 8361-553
8 10/100TX PoE at/af + 2 GigaLX 10KM IP67 rated Industrial Switch w/M12 connectors; dual 43~137.5V input; -40~75C
- IPES-0208GF-LX-54-110V P/N: 8361-5531
8 10/100TX PoE at/af + 2 GigaLX 10KM IP54 rated Industrial Switch w/M12 connectors; dual 43~137.5V input; -40~75C


## OPTIONAL ACC=SSORI=S

M12/M23 Connector \& Cable

| $\square$ ECONM23-5P(F)70CM CABLE | M23 power cable 90 degree angle, $70 \mathrm{~cm}, 5 \mathrm{pin}$, Made in Taiwan |
| :--- | :--- |
| $\square$ ECONM23-5P(F)70CM CABLE-C | M23 power cable 90 degree angle, $70 \mathrm{~cm}, 5$ pin, Made in China |
| $\square$ ECAB124030MJS | 4 Pin M12 RJ45 Male 3 Meters; STP Cable |
| $\square$ CON09000030 | Fiber optical connector ASSY type |

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