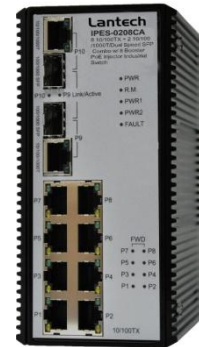


IPES-0208CA-12V

8 10/100TX + 2 10/100/1000T/Dual Speed SFP Combo

w/ 8x12V~48V PoE at/af Injector Industrial Switch

- *Conforms to IEEE 802.3af/at PoE standard*
- *Input voltage 12V~48V, Output voltage 48V PoE*
- *Max PoE budget 240W at 48V, 120W at 24V, 90W at 12V input*
- *Relay Alarm Output System Events*
- *Passive mode B PoE model available*
- *Supports ISO-7637 Pulse5*



OVERVIEW

The Lantech IPES-0208CA-12V is an 8 10/100BaseTX + 2 10/100/1000T/Dual Speed SFP Combo industrial switch w/8 booster POE Injectors. The SFP connection is suitable with 100M and 1000M Dual Speed.

Equipped with DC 12~48V redundant input power, the Lantech IPES-0208CA-12V is able to boost input voltage from 12V to 48V then feed each PoE port up to 15.4Watts/30Watts with total PoE power budget 90W at 12V, 120W at 24V input or 240W at 48V input. It also supports relay contact to connect with alarm system in case of power or port failure.

Lantech IPES-0208CA-12V is designed to meet the demands of vehicle and industrial environments, comes packaged in a

robust IP30 housing and has been tested extensively to meet Industrial EMI and EMC standards. Rigorous mechanical testing has also been undertaken to comply with free fall, shock and vibration stability test requirements, which ensure long term reliability in critical industrial environments. It is the most suitable PoE switch for bus, carriage, other vehicles and industrial areas where the power source is limited with 12V or 24V but has demand of surveillance or VoIP applications.

The switch also supports ISO-7637 Pulse5 that protects switch from being damaged by high voltage that could be found at vehicle cranky start.

FEATURES & BENEFITS

■ System Interface/Performance

- RJ-45 port support Auto MDI/MDI-X Function
- Embedded 8-port booster PoE injector function
- SFP (Mini-GBIC) supports 100/1000 Dual Mode
- IEEE 802.3af/at Standards
- Back-plane (Switching Fabric): 5.6Gbps
- 1Mbits Packet Buffer
- 8K MAC Address Table
- Support Standard Operating Temperature (-20°C~60°C)
- Support Wide Operating Temperature (-40°C~75°C, -E model)

■ Power Supply

- Redundant Power Design
- 12V input with PoE budget 90W
- 24V input with PoE budget 120W
- 48V input with PoE budget 240W

■ Case/Installation

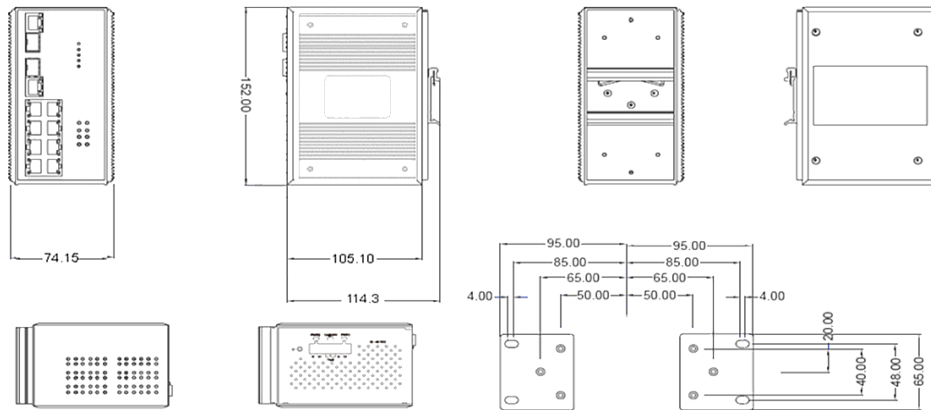
- IP-30 Protection
- DIN Rail and Wall Mount Design(optional)

■ Relay Alarm

- Relay output for port breakdown, power fail and alarm

■ Passive mode B PoE model available

DIMENSIONS (unit=mm)



SPECIFICATION

Hardware Specification	
IEEE Standards	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z Gigabit fiber IEEE802.3x Flow Control and Back Pressure IEEE802.3af/at Power over Ethernet
Switch Architecture	Back-plane (Switching Fabric): 5.6Gbps Packet throughput ability(Full-Duplex): 8.3Mpps @64bytes
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Fiber Ethernet port
Packet Buffer	1Mbits
MAC Address	8K MAC address table
Connectors	10/100TX: 8 x RJ-45 10/100/1000T/ Mini-GBIC Combo: 2 x RJ-45 + 2 x 100/1000 SFP sockets
Network Cable	10Base-T: UTP/STP Cat. 3, 4, 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 100Base-TX: UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m) 1000Base-TX: UTP/STP Cat. 5/ 5E/ 6 cable EIA/TIA-568 100-ohm (100m)
Optical Fiber	Multi-mode: 50/125um-62.5/125um Single-mode: 9/125um Available distance: 2km (Multi-mode)/30km (Single-mode) Wavelength: 1310nm (Multi-mode/Single-mode)
Protocol	CSMA/CD
PoE pin assignment	RJ-45 port # 1-# 8 support IEEE 802.3af/at End-point, Alternative A mode. Per port provides 15.4W/30W ability. Positive (VCC+): RJ-45 pin 1,2. Negative (VCC-): RJ-45 pin 3,6.
LED	Per unit: Power (Green), Power 1 (Green), Power 2 (Green), Fault (Red), 8 port 10/100: Link/Activity (Green), Full duplex/Collision (Yellow), Power Feeding (Green) Giga port: Link/Activity(Green),Giga Speed (Yellow)
Relay Output	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Power Supply	External Power Supply: DC 9-56V, Redundant power D9V-DC 56V and connective removable terminal block.
Power Consumption	10 Watts (Max.); POE Power Budget: 240 Watts (Max.) at 48V input; 120Watts at 24V input; 90Watts at 12V input
Operating Humidity	5% - 95% (Non-condensing)
Operating Temperature	Standard: -20°C-60°C /-13°F-140°F -E model: -40°C-75°C /-40°F-167°F
Storage Temperature	-40°C-85°C / -40°F-185°F
Case Dimension	IP-30, 74mm (W) x 114mm (D) x 152mm (H)
Installation	Provide DIN rail kit and wall mount ear** for wall mount or DIN-type cabinet install
EMI & EMS	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, CE EN61000-4-11, CE EN61000-4-12, CE EN61000-6-2, CE EN61000-6-4, ISO-7637
Stability Testing	IEC60068-2-32 (Free fall), IEC60068-2-27 (Shock), IEC60068-2-6 (Vibration)
Warranty	5 years

*Future Release
**Optional

ORDERING INFORMATION

- **IPES-0208CA-12V.....P/N: 8350-751**
8 10/100TX + 2 10/100/1000T/ Dual Speed SFP Combo w/ 8x12V~48V PoE Injector at/af Industrial Switch; -20~60C
- **IPES-0208CA.....P/N: 8350-754**
8 10/100TX + 2 10/100/1000T/ Dual Speed SFP Combo w/ 8x48V PoE Injector at/af Industrial Switch; -20~60C
- **IPES-0208CA-B.....P/N: 8350-761**
8 10/100TX PoE mode B + 2 10/100/1000T/ Dual Speed SFP Combo Industrial Switch; DC12/24V/48V input; -20~60C
- **IPES-0208CA-12V-E.....P/N: 8350-760**
8 10/100TX + 2 10/100/1000T/ Dual Speed SFP Combo w/ 8x12V~48V PoE Injector at/af Industrial Switch; -40~75C
- **IPES-0208CA-E.....P/N: 8350-755**
8 10/100TX + 2 10/100/1000T/ Dual Speed SFP Combo w/ 8x48V PoE Injector at/af Industrial Switch; -40~75C
- **IPES-0208CA-B-E.....P/N: 8350-762**
8 10/100TX PoE mode B + 2 10/100/1000T/ Dual Speed SFP Combo Industrial Switch; DC12/24V/48V input; -40~75C

OPTIONAL ACCESSORIES

DIN Rail Power

- **AD1048-24FS** 24VDC, 2A, Wide AC Input, Convection Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 75°C, which means the output is 18 Watts at 75°C.)
- **AD1240-48S** 48VDC, 5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1120-48F** 48VDC, 2.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1240-48S-5** 48~56VDC, 4.3A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1360-48S-5** 48~56VDC, 6.5A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)
- **AD1500-48S-5** 48~56VDC, 9A, Wide AC Input, Build-in fan Cooled, DIN Rail or Wall Mounted, RoHS, Operating Temp. -20°C~50°C (ambient, derating each output at 2.5% per degree from 50°C ~ 70°C)

Mini GBIC (SFP)

- | | |
|--|--|
| ■ 8330-162 MINI GBIC 1000SX (LC/0.5km) Transceiver | ■ 8330-188 LTSFP-1000BX-10KM Transceiver (WDM 1310) |
| ■ 8330-163 MINI GBIC 1000SX2 (LC/2km) Transceiver | ■ 8330-189 LTSFP-1000BX-10KM Transceiver (WDM 1550) |
| ■ 8330-165 MINI GBIC 1000LX (LC/10km) Transceiver | ■ 8330-186 LTSFP-1000BX-20KM Transceiver (WDM 1310) |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/40km) Transceiver | ■ 8330-187 LTSFP-1000BX-20KM Transceiver (WDM 1550) |
| ■ 8330-166 MINI GBIC 1000XD (LC/50km) Transceiver | ■ 8330-180 LTSFP-1000BX-40KM Transceiver (WDM 1310) |
| ■ 8330-169 MINI GBIC 1000XD (LC/60km) Transceiver | ■ 8330-182 LTSFP-1000BX-40KM Transceiver (WDM 1550) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/80km) Transceiver | ■ 8330-181 LTSFP-1000BX-60KM Transceiver (WDM 1310) |
| ■ 8330-170 MINI GBIC 1000EZ (120km) Transceiver | ■ 8330-183 LTSFP-1000BX-60KM Transceiver (WDM 1550) |
| ■ 8330-168 MINI GBIC 1000T (100m) Transceiver | ■ 8330-184 LTSFP-1000BX-80KM Transceiver (WDM 1490) |
| ■ 8330-061 100Base LX 30KM, Single-mode, LC Transceiver | ■ 8330-185 LTSFP-1000BX-80KM Transceiver (WDM 1550) |
| ■ 8330-060 100Base FX 2KM, Multi-mode, LC Transceiver | |

Wall Mount Bracket

- **MBEAR001** Wall mount bracket for 74(W) x 114 (D) x 152 (H) mm Industrial switches

Lantech Communications Global Inc.

www.lantechcom.tw
info@lantechcom.tw

© 2013 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.