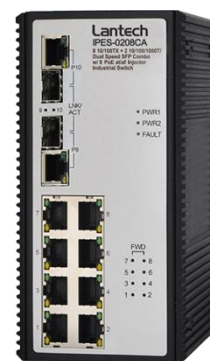


IPES-0208CA

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, 80W at 12V input*
- *Relay Alarm Output System Events*
- *Supports ISO-7637 Pulse5*



OVERVIEW

The Lantech IPES-0208CA 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 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 80W 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 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 80W
- 24V input with PoE budget 120W
- 48V input with PoE budget 240W

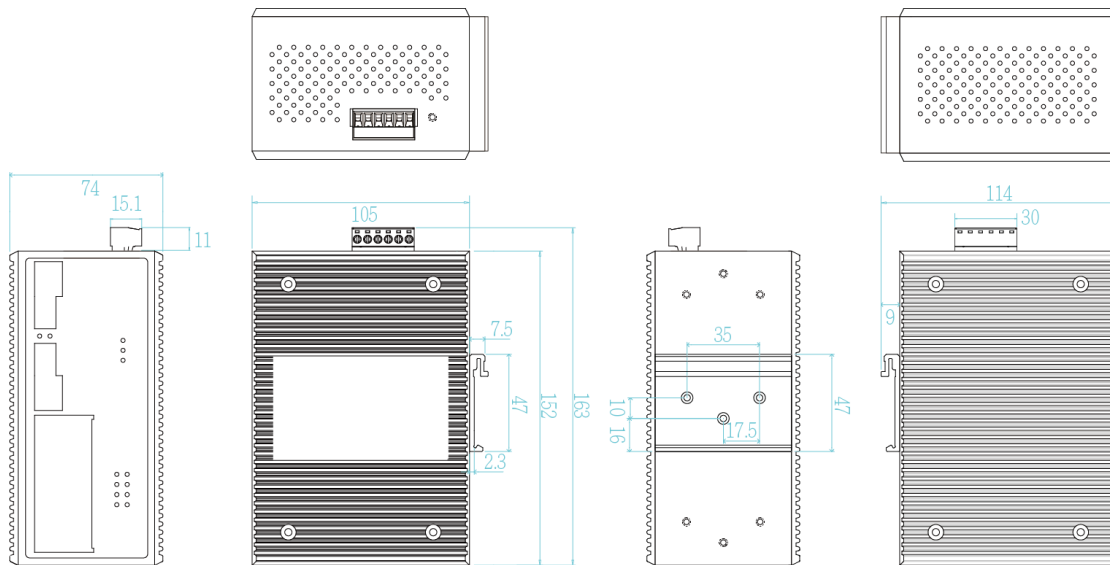
Case/Installation

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

Relay Alarm

- Relay output for port breakdown, power fail and alarm

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	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)
Switch Architecture	Back-plane (Switching Fabric): 5.6Gbps	Relay Output	Provides one relay output for port breakdown, power fail and alarm. Alarm Relay current carry ability: 1A @ DC24V
Transfer Rate	14,880pps for Ethernet port 148,800pps for Fast Ethernet port 1,488,000pps for Gigabit Ethernet / Gigabit Fiber port	Power Supply	External Power Supply: DC 9.5~56V, Redundant power D9.5V~DC 56V and connective removable terminal block.
Packet Buffer	1Mbits	Power Consumption	10 Watts (Max.); POE Power Budget: 240 Watts (Max.) at 48V input; 120Watts at 24V input; 80Watts at 12V input
MAC Address	8K MAC address table	Operating Humidity	5% ~ 95% (Non-condensing)
Connectors	10/100TX: 8 x RJ-45 10/100/1000T/ Mini-GBIC Combo: 2 x RJ-45 + 2 x 100/1000 SFP sockets	Operating Temperature	Standard: -20°C~60°C /-13°F~140°F -E model: -40°C~75°C /-40°F~167°F
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)	Storage Temperature	-40°C~85°C / -40°F~185°F
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)	Case Dimension	IP-30, 74mm (W) x 114mm (D) x 152mm (H)
Protocol	CSMA/CD	Installation	Provide DIN rail kit and wall mount ear** for wall mount or DIN-type cabinet install
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.	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 EN61000-6-2, CE EN55032 Class A,
		Stability Testing	IEC60068-2-32 (Free fall),

	IEC60068-2-27 (Shock), IEC60068-2-64 (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-48V.....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-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-48V-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

OPTIONAL ACCESSORIES

DIN Rail Power

- **NDR-480 Series** 480W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC 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)
- **NDR-240 Series** 240W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC 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)
- **NDR-120 Series** 120W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC 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; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)
- **NDR-75 Series** 75W Single Output Industrial Din Rail Power; 90-264VAC / 127-370VDC 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; For 115VAC, please refer to derating curve on NDR-120 Series datasheet)

Mini GBIC (SFP)

- | | |
|---|--|
| ■ 8330-162X MINI GBIC 1000SX (LC/MM/0.5KM) Transceiver | ■ 8330-065 MINI GBIC 100Base (LC/MM/5KM) Transceiver |
| ■ 8330-163X MINI GBIC 1000SX2 (LC/MM/2KM) Transceiver | ■ 8330-061 MINI GBIC 100Base (LC/SM/30KM) Transceiver |
| ■ 8330-165X MINI GBIC 1000LX (LC/SM/10KM) Transceiver | ■ 8330-197 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1310) |
| ■ 8340-0591 MINI GBIC 1000LHX (LC/SM/40KM) Transceiver | ■ 8330-198 1.25Gbps BiDi SFP 0.5KM Transceiver (WDM 1550) |
| ■ 8330-166 MINI GBIC 1000XD (LC/SM/50KM) Transceiver | ■ 8330-195 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1310) |
| ■ 8330-169 MINI GBIC 1000XD (LC/SM/60KM) Transceiver | ■ 8330-196 1.25Gbps BiDi SFP 2KM Transceiver (WDM 1550) |
| ■ 8330-167 MINI GBIC 1000ZX (LC/SM/80KM) Transceiver | ■ 8330-188 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1310) |
| ■ 8330-170 MINI GBIC 1000EZ (LC/SM/120KM) Transceiver | ■ 8330-189 1.25Gbps BiDi SFP 10KM Transceiver (WDM 1550) |
| ■ 8330-168 MINI GBIC 10/100/1000T (100m) Transceiver | ■ 8330-186 1.25Gbps BiDi SFP 20KM Transceiver (WDM 1310) |
| ■ 8330-060 MINI GBIC 100Base (LC/MM/2KM) Transceiver | |

Wall Mount Bracket

- **MBAK19003** Wall mount bracket for 74(W) x 105 (D) x 152 (H) mm / 96 (W) x 105 (D) x 152 (H) mm Industrial switches
- **MBAK19004** 19" Rack Mounting Kit for 74x105x152mm/74x135x152mm Industrial Switch

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