IES3208P
Industrial Ethernet Switch
8x10/100/1000Base-T(PoE) to 2x1000Base-X

Overview

The **IES3208P** is a high-performance industrial PoE switch designed to provide an integrated power and data solution for demanding remote networking environments. By combining **8 Gigabit PoE+ ports** with **2 fiber uplinks**, it enables the seamless deployment of high-bandwidth devices—such as IP surveillance cameras, wireless access points, and VoIP phones—without the need for localized power sources. This centralized power management significantly reduces installation complexity and maintenance costs in large-scale industrial layouts.

Industrial-Grade Reliability & Power Protection Engineered to thrive where standard switches fail, the IES3208P is housed in a **ruggedized IP40 aluminum alloy** enclosure. It delivers non-stop performance across an extreme operating temperature spectrum of **-40°C to +85°C**. To ensure mission-critical stability, the device features high-level EMI protection and **redundant 48-56VDC power inputs**, shielding the network from electrical surges, vibrations, and mechanical shocks common in oil & gas, mining, and outdoor traffic management.

Simplified Deployment & Smart Operation Designed for true **plug-and-play functionality**, the IES3208P requires zero software configuration, ensuring immediate network availability upon power-up. It automatically detects and provides the necessary power to IEEE 802.3af/at compliant devices, supporting a full **15.4W or 30W per port**. Its versatile design supports both **DIN-rail and wall-mounting**, making it adaptable to crowded industrial cabinets or remote field enclosures.
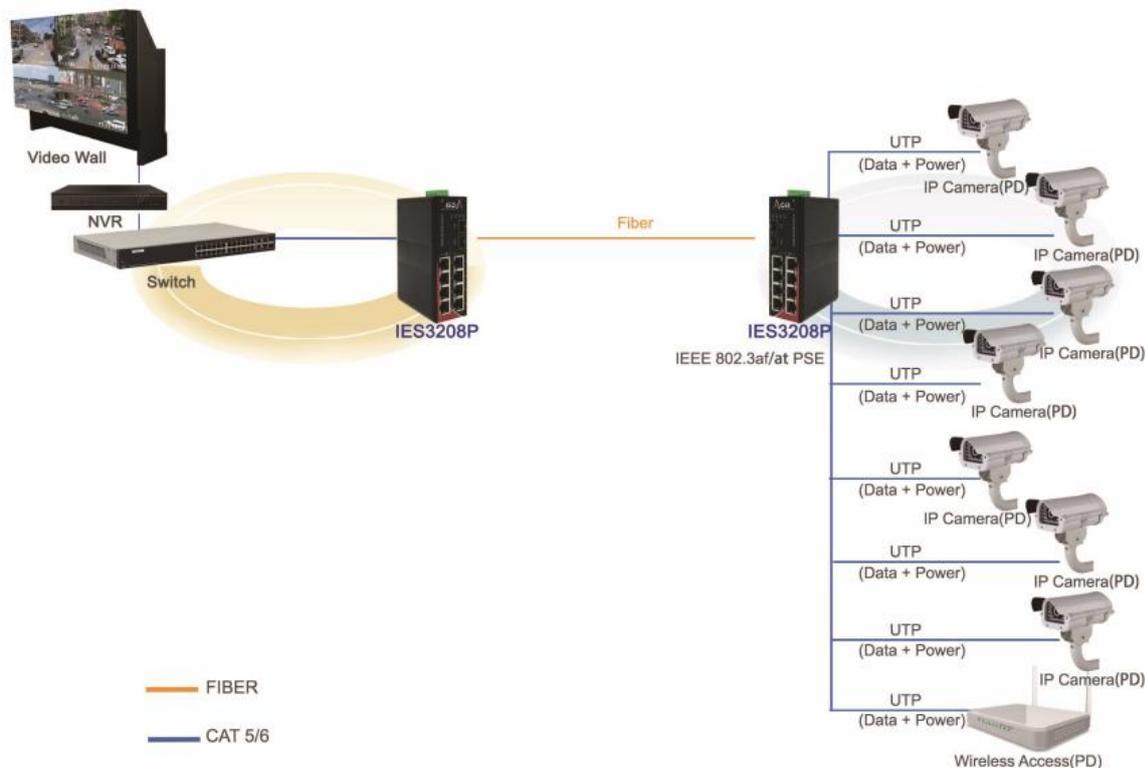
Port Configuration & PoE Capability

- **Intelligent PoE+ Access**: 8 x 10/100/1000Base-T RJ45 ports supporting the IEEE 802.3at/af standard, providing stable links and power delivery up to 100 meters.

- **Dual Fiber Backbone**: 2 x 1000Base-X SFP slots designed for high-speed data backhaul and daisy-chaining connectivity.

- **Maximum Media Flexibility**: The SFP slots are compatible with any MSA-compliant pluggable transceivers. AOA offers a full range of matching industrial-grade SFP modules to ensure optimal performance in extreme conditions.

Features

- Provide 8 x 10/100/1000Base-T
- 2 x 1000Base-X for Daisy-Chain
- IEEE803.3af/at compliant
- RJ45 supports auto MDI/MDI-X function
- Auto-negotiation speed, half/full-duplex
- Store-and-forward
- Max packet size: 10K bytes
- Support wide operating temperature (-40°C ~ +85°C)
- Wide-range redundant power design (48~56VDC)
- Power polarity reverse protect
- Overload current resettable fuse present
- IP-40 protection
- Provides EFT protection for the Power line
- Support Ethernet ESD protection
- DIN-Rail and Wall-Mounted Installation
- Low power consumption

Applications

Technical Specifications

Standards	IEEE802.3 10Base-T IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-SX/LX standards IEEE802.3x Flow control and back pressure IEEE802.1d Spanning Tree IEEE802.3af/at POE
Performance	Processing Type: Store and Forward Back Bandwidth: 20Gbps MAC Address Size: 16Kbit Packet Buffer Size: 2Mbit Time Delay: <10us Frame: 10kbytes
Copper Port	Data Rate: 10/100/1000M Connector: RJ45 x 8 Distance: 100m
Fiber Port	Data Rate: 1.25G Connector: SC as default, FC/ST/SFP Slot Optional Distance:　MMF 550m/2km,SMF 20/40/80/100/120km, Bi-di:20/40/80/100/120km
LED indicators	PWR1: ON=Power Connected PWR2: ON= Power Connected FL/A:　ON=Fiber Connected; Active=Data Transmitting L/A:　　ON=Copper Connected; Active= Data Transmitting POE:　　ON=POE Working; Off=No POE
Power	Input Voltage: 48~56VDC, redundant power inputs Power Consumption: ≤8W PoE Budget: 15.4Wx8=123W(PoE) 30Wx8=240W(PoE+) Protection: Overload Current; Reverse Polarity Connector: Terminal Block
Environment	Operating Temperature: -40°C~ +85°C Storage Temperature: -40°C ~ +95°C Relative Humidity: 5-95% (no condensation)
Physical Characteristics	Housing: IP40 Protection, Aluminum Alloy Installation: DIN-rail mounting, wall mounting(with optional kit) Dimension: 138*107*45mm(device); 220*175*73mm(packing) Weight: 0.48kg(device); 0.63kg(device with packing)

Order Information

Model	Description
IES3208P-SFP	10/100/1000M,2GX8GE,PoE,SFP Slot
IES3108P-M05	10/100/1000M,1GX8GE,PoE,MM dual fiber,850nm,550m,SC
IES3108P-S20	10/100/1000M,1GX8GE,PoE,SM dual fiber,1310nm,20Km,SC
IES3208P-M05	10/100/1000M,2GX8GE,PoE,MM dual fiber,850nm,550m,SC
IES3208P-S20	10/100/1000M,2GX8GE,PoE,SM dual fiber,1310nm,20Km,SC
Note: AC/DC power supply purchased separately	

Related Products

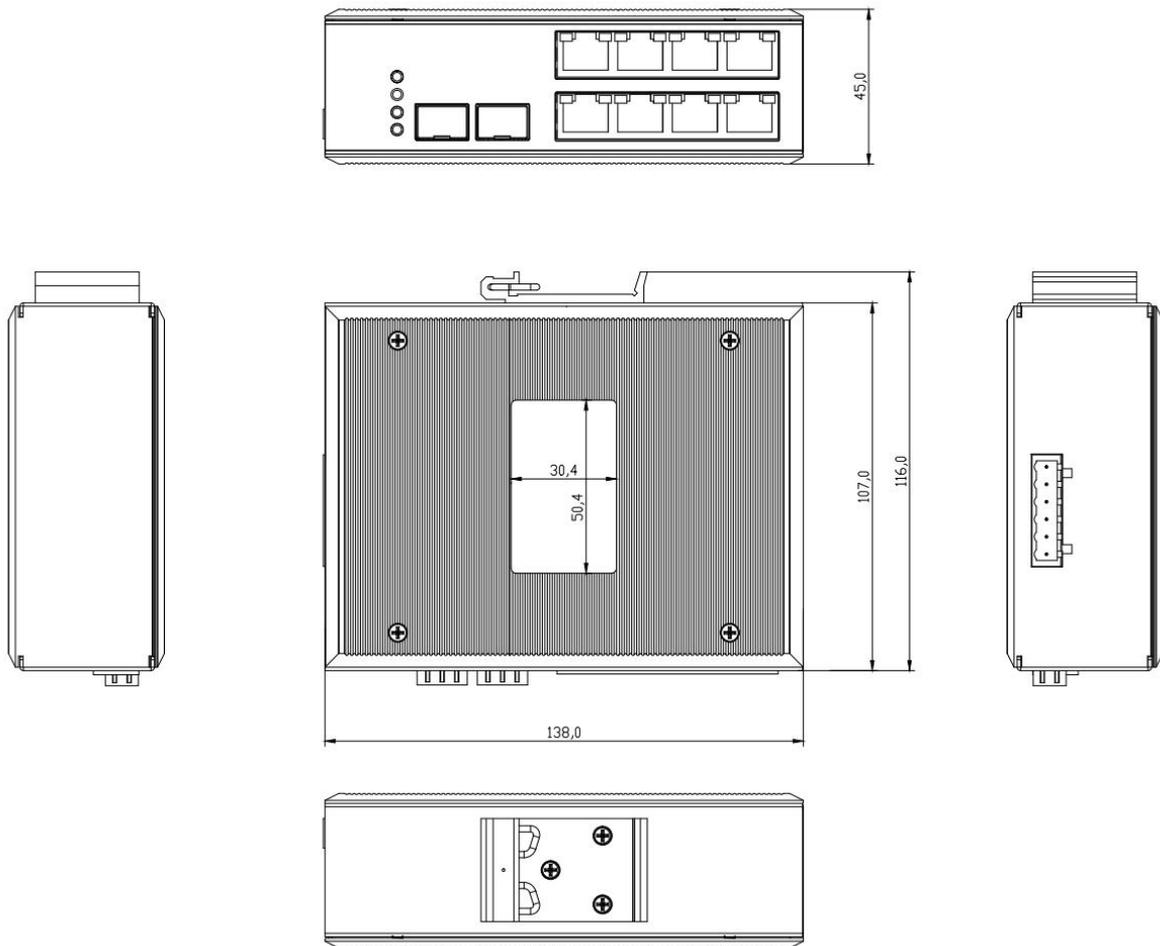| Model	Description
DIN-rail Power supply	
NDR-120-48	DIN-rail 120W, 90~264Vac input, 48~55Vdc output
NDR-240-48	DIN-rail 240W, 85~264Vac input, 24V0.63A output
SFP Module	
SFP-M1285L-05I	1.25G MM 850nm LC 550m DDM, Industrial Grade
SFP-M1213L-02I	1.25G MM 1310nm LC 2km DDM, Industrial Grade
SFP-S1213L-20I	1.25G SM 1310nm LC 20km DDM, Industrial Grade
SFP-B1235L-20I	1.25G SM TX1310/RX1550nm LC 20km DDM, Industrial Grade
SFP-B1253L-20I	1.25G SM TX1550/RX1310nm LC 20km DDM, Industrial Grade
Long distance 40/60/80/100/120km is available	
Installation Accessories	
TK12	Wall-mounted kits, 118*18*16mm, φ3.5mm L=12mm
A02	Side DIN-rail mounted kits, 72.7*70*8.5mm, φ3.5mm L=6mm
CK01	Rack-mounted bracket with Din-rail, 483*215*130mm

TK12 Wall-mounted kits

A02 Side DIN rail mounted kits

CK01 Rack-mounted bracket

Structure diagram (mm)

45,0

30,4

50,4

107,0

116,0

138,0