IES2312 Series

DIN-Rail or Wall Mounting

12-port Full Gigabit Layer 2 Unmanaged Industrial PoE/non-PoE Ethernet Switch

- Support 4 gigabit fiber ports (1*9 module or SFP slot) and 8 gigabit copper ports (PoE or non-PoE)

- Output power of single-port PoE can reach up to 30W

- PoE product supports dual power supply, 48VDC PoE or 24VDC PoE power input

- Non-PoE product supports 100~240VAC or dual power supply 12~48VDC power input

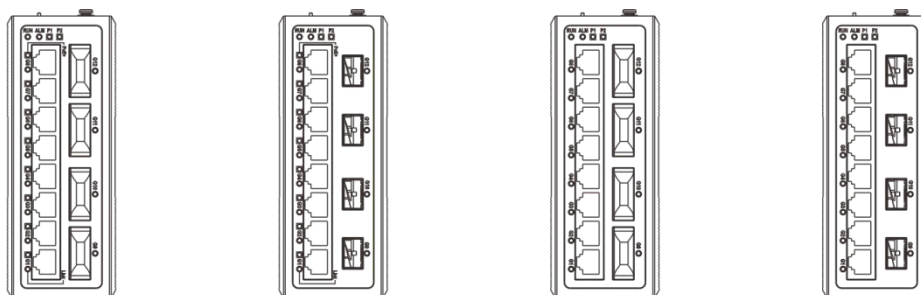- Support -40~75℃ wide operating temperature range

Introduction

IES2312 series are 12-port full gigabit layer 2 unmanaged industrial PoE/non-PoE Ethernet switches. Their PoE power supply conforms to the protocol standards of IEEE 802.3af/at. This series have 8 types of product, and provide gigabit copper ports, gigabit PoE ports, gigabit fiber pots, gigabit SFP slots and other ports. They support multiple power supply schemes including 100~240VAC, 12~48VDC, 24VDC POE and 48VDC POE, and adopt DIN-Rail mounting or wall mounting, which can meet the requirements of different scenes.

The input DC power supply is two independent power supply circuits which can ensure the normal operation of the device when one power supply fails. Hardware adopts fanless, low power consumption, wide temperature and voltage design and has passed rigorous industrial standard tests, which can suit for the industrial scene environment with harsh requirements for EMC. It can be widely used in AP coverage, railway transportation, smart city, safe city, new energy, smart grid, aerospace, intelligent manufacturing, military project and other industrial fields.
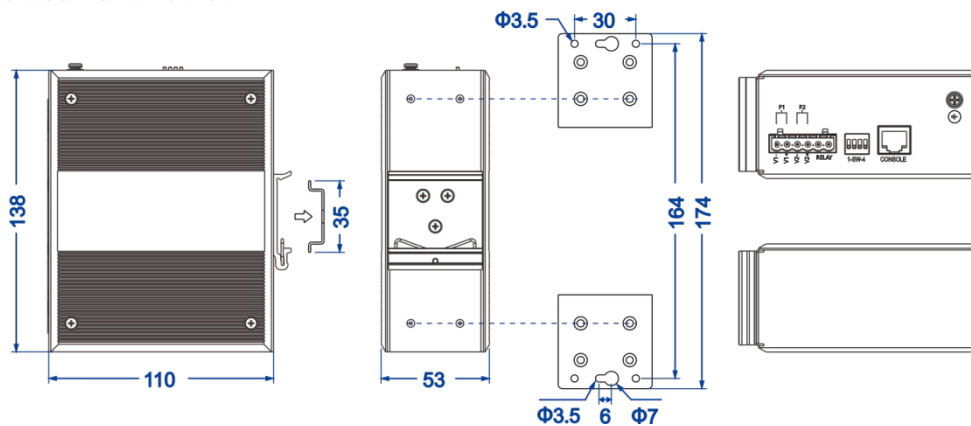
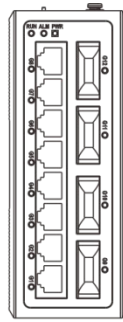# Dimension

Unit:mm

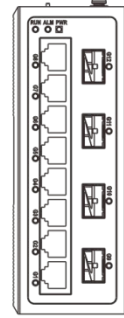- DC power supply product

IES2312-8GP4GF-2P24-120W   IES2312-8GP4GS-2P24-120W
IES2312-8GP4GF-2P48-120W   IES2312-8GP4GS-2P48-120W   IES2312-8GT4GF-2P48   IES2312-8GT4GS-2P48
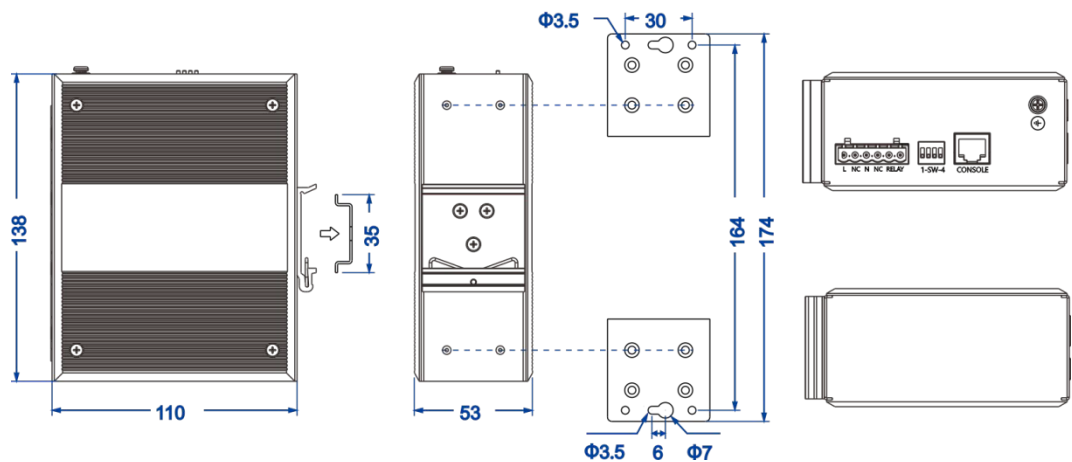IES2312-8GP4GF-2P48-240W   IES2312-8GP4GS-2P48-240W

- AC power supply product

IES2312-8GT4GF-P220   IES2312-8GT4GS-P220

Specification

Standard & Protocol	IEEE 802.3 for 10Base-T IEEE 802.3u for 100Base-TX IEEE 802.3ab for 1000Base-T IEEE 802.3z for 1000Base-X IEEE 802.3af for PoE IEEE 802.3at for PoE+
PoE	The maximum power of POE port: 30W PoE power supply pin: V+, V+, V-, V- correspond to Pin 1, 2, 3, 6
Interface	Gigabit copper port: 10/100/1000Base-T(X), RJ45, Automatic Flow Control, Full/half Duplex Mode, MDI/MDI-X Autotunning Gigabit fiber port: 1000Base-FX, optional SC/ST/FC interface SFP slot: 1000Base-SFP, LC Console port: Reserved Alarm port: Reserved

LED Indicator	Running Indicator, Alarm Indicator, Port Indicator, Power Supply Indicator, PoE Indicator
Switch Property	Transmission mode: store and forward MAC address: 8K Packet buffer size: 4Mbit Backplane bandwidth: 24G Switch time delay: <10µs
Power Requirement	This series of products provide 4 power supply modes. The PoE product has two optional power supply schemes: Scheme 1 • Power supply range: 24VDC PoE • Connection mode: 6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins) • Power supply quantity: dual power supply redundant backup • Connection protection: anti-reverse connection • Over-current protection: 12A Scheme 2 • Power supply input: 48VDC PoE • Connection mode: 6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins) • Power supply quantity: dual power supply redundant backup • Connection protection: anti-reverse connection • Over-current protection: 5A Non-PoE product has two optional power supply schemes: Scheme 3 • Power supply range: 12~48VDC • Connection mode: 6-pin 5.08mm pitch terminal blocks (power supply occupies 4 pins) • Power supply quantity: dual power supply redundant backup • Connection protection: non-polarity • Over-current protection: 3A Scheme 4 • Power supply input: 100~240VAC • Connection mode: 6-pin 5.08mm pitch terminal blocks (power supply occupies 2 pins) • Over-current protection: 5A

Power Consumption	Model	No-load	Full-load
	IES2312-8GP4GF-2P24-120W	9.1W@24VDC	141.5W@24VDC

IES2312-8GP4GS-2P24-120W	6.0W@24VDC	100.8W@24VDC
IES2312-8GP4GF-2P48-120W	8.8W@48VDC	130.0W@48VDC
IES2312-8GP4GF-2P48-240W	8.8W@48VDC	199.6W@48VDC
IES2312-8GP4GS-2P48-120W	5.2W@48VDC	132.9W@48VDC
IES2312-8GP4GS-2P48-240W	5.2W@48VDC	200.2W@48VDC
IES2312-8GT4GF-2P48	7.5W@24VDC	10.5W@24VDC
IES2312-8GT4GS-2P48	4.2W@24VDC	10.2W@24VDC
IES2312-8GT4GF-P220	7.7W@220VAC	11.1W@220VAC
IES2312-8GT4GS-P220	4.6W@220VAC	10.4W@220VAC

Environmental Limit	Operating temperature range: -40~75℃ Storage temperature range: -40~85℃ Relative humidity: 5%~95% (no condensation)
Physical Characteristic	Housing: IP40 protection, metal Installation: DIN-Rail or wall mounting Weight: ≤740g Dimension (W x H x D): 53mm×138mm×110mm
Industrial Standard	IEC 61000-4-2 (ESD), Level 3 IEC 61000-4-4 (EFT), Level 3 IEC 61000-4-5 (Surge), Level 3 Shock: IEC 60068-2-27 Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certification	CE, FCC, RoHS, UL61010
Warranty	5 years

Ordering Information

Available Models	Gigabit Copper Port	Gigabit PoE Port	Gigabit Fiber Port	Gigabit SFP Slot	PoE Power	Power Supply
IES2312-8GP4GF-2P24-120W	—	8	4	—	120W	Dual power supply 24VDC POE
IES2312-8GP4GS-2P24-120W	—	8	—	4	120W	Dual power supply 24VDC POE
IES2312-8GP4GF-2P48-120W	—	8	4	—	120W	Dual power supply 48VDC POE
IES2312-8GP4GS-2P48-120W	—	8	—	4	120W	Dual power supply 48VDC POE
IES2312-8GP4GF-2P48-240W	—	8	4	—	240W	Dual power supply 48VDC POE
IES2312-8GP4GS-2P48-240W	—	8	—	4	240W	Dual power supply 48VDC POE
IES2312-8GT4GF-2P48	8	—	4	—	—	Dual power supply 12~48VDC
IES2312-8GT4GS-2P48	8	—	—	4	—	Dual power supply 12~48VDC
IES2312-8GT4GF-P220	8	—	4	—	—	100~240VAC
IES2312-8GT4GS-P220	8	—	—	4	—	100~240VAC

*Product pictures and technical data in this datasheet are only for reference. Updates are subject to change without prior notice. The final interpretation right is reserved by 3onedata.