Overview

The RS-IS-100-10GP is a full gigabit unmanaged industrial PoE switch independently developed by Rubisec.

It has 8*10/100/1000Base-T adaptive RJ45 ports and 2*1000Base-X uplink SFP slot ports. Ports 1-8 can support IEEE802.3af/at PoE standard.

Single-port PoE power up to 30W. As a PoE power supply device, it can automatically detect and recognize the power receiving equipment that meets the standard and supply power through the network cable. It can supply power to PoE terminal devices such as wireless AP, IP camera, and industrial sensors through the network cable, and meet the network environment that needs a high-density PoE power supply.

It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, and sea transportation. Industrial scenes such as metallurgy and green energy, construction form a cost-effective, stable, and reliable communication network.

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Model	RS-IS-100-10GP
Interface Characteristics	
Fixed Port	8*10/100/1000Base-T PoE+ ports 2*1000Base-X uplink SFP fiber slot ports 2 sets of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	10/100/1000Base-T(X) ports supports auto-sensing, full/ half duplex MDI/ MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meters) 100BASE-TX: Cat5 or later UTP(≤100 meters) 1000BASE-T: Cat5e or later UTP(≤100 meters)
SFP Port	Gigabit SFP optical fiber port, default no include optical modules (optional single-mode / multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500M, Single-mode: 1310nm/ 0-40KM, 1550nm/ 0-120KM.
Chipset Parameters	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward (Full Wire Speed)
Switching Capacity	20Gbps (Non-blocking)
Forwarding Rate@64byte	14.88Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frame	9.2K
LED Indicators	Power: PWR (Green), Network: Link,link/Act (Yellow), PoE: PoE (Green)

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PoE & Power Supply

PoE Port	1 to 8, IEEE 802.3 af/at
Power Supply Pin	1/2(+) 3/6(−)
Max Power Per Port	30W, IEEE 802.3 af/at
Power Consumption	Standby<10W, Full load af<120W, at<240W
Input Voltage / Interface	DC48–57V, 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply

Physical Parameters

Operation TEMP / Humidity	−40°C~+80°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	−40°C~+85°C, 5%~95% RH Non condensing
Ingress Protection	IP40
Lighting Protection	4KV 8/20us IEC61000-6-2 (Common Industrial Standard) IEC61000-4-2 (ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-3 (RS):10V/m (80~1000MHz) IEC61000-4-4(EFT): Power cable: ±4kV; data cable: ±2kV IEC61000-4-5 (Surge): Power cable: CM±4kV/ DM±2kV, data cable: ±4kV IEC61000-4-6 (Radio frequency transmission): 10V(150kHz~80MHz) IEC61000-4-8 (Power frequency magnetic field): 100A/m, 1000A/m, 1s to 3s IEC61000-4-9 (Pulsed magnet field): 1000A/m IEC61000-4-10 (Damped oscillation): 30A/m 1MHz IEC61000-4-12/18 (Shockwave): CM 2.5kV, DM 1kV IEC61000-4-16 (Common-mode transmission): 30V, 300V, 1s
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock), IEC60068-2-32 (free fall)
Dimension (L*W*H)	165*148*54mm
Net /Gross Weight	<1.0kg / <1.3kg
Installation	Desktop, 35mm DIN rail

Certification	CCC, CE mark, commercial, CE/LVD EN62368-1, FCC Part 15 Class B, RoHS

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Packing List	Content	Qty	Unit
Packing List	10-port full gigabit unmanaged industrial PoE+ switch	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

Ordering Information

Model	Description
RS-IS-100-10GP	Unmanaged industrial PoE+ switch with 8*10/100/1000Base-T ports and 2*1000Base-X uplink SFP slot ports. Ports 1-8 can support PoE IEEE 802.3af/at. It can support DC dual redundant power input and DIN rail mounting.