

# DATASHEET

## ER-1810U8GE-IPS



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# ER-1810U8GE-IPS

## FEATURES:

- 8\*10/100/1000M + 2\*1000M SFP fiber Port Industrial PoE Switch, 1-8 ports support IEEE 802.3af/at;
- PoE port support AF/AT intelligent recognition. Standard power is 15.4W/port, Maximum power: 30W/port;
- Only support 1,2(+)/3,6(-);
- Switching capacity:20Gbps, MAC table:16K;
- Input voltage: DC48-57V, Redundant dual power 5-bit industrial terminals;
- IP protection level: IP40; Rail-type installation

## INTRODUCTION:

The ER-1810U8GE-IPS is full gigabit industrial PoE fiber switch independently developed by ER. It has 8\*10/100/1000Base-T RJ45 ports and 2\*1000Base-X uplink SFP slot ports. Port 1-8 can support IEEE 802.3af/at PoE standard, single-port PoE power up to 30W, and the maximum PoE output power of the host is 120W(at-240W). 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 device such as wireless AP, IP camera, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, 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	ER-1810U8GE-IPS
Interface	8*10/100/1000Base-TX PoE ports (Data/Power) 2*1000Base-X uplink SFPfiber slot ports (Data) 2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)
PoE Port	Port 1-8 supports POE @ IEEE802.3af/at
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX;

	IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x
PoE Standard	IEEE802.3af/at
Ethernet Port Feature	Port 1-8 support 10/100/1000Base-T(X) auto- sensing, full/halfduplex MDI/MDI-X self-adaption
SFP Port Characteristic	Gigabit SFP optical fiber interface, default matching optical modules, need to buy separately, (optional order mode / multi-mode, single fiber / double fiber optical module.
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

Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP (≤100 meter) 100BASE-TX: Cat5 or later UTP (≤100 meter) 1000BASE-T: Cat5e or later UTP (≤100 meter)
Optical Cable	Multimode: 850nm 0 ~ 500M, 1310nm 0~2KM; Single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Power Supply Pin	Default 1/2 (+), 3/6 (-), optional 4/5 (+), 7/8 (-)
Working Voltage	48-57VDC; 5 Pin industrial Phoenix terminal, support anti-reverse protection.
Max Power Per Port	30W; IEEE802.3af/at
Total PWR / Input Voltage	240W (48-57VDC)

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<b>Power Consumption</b>	Standby:<10W; Full load:<120W
<b>LED Indicator</b>	Power: PWR (green), Network: Link, link/Act (yellow), Rate: Speed(green), PoE: PoE (green)
<b>Power Supply</b>	No, optional 48V/120W or 48V/240W industrial power supply
<b>Operation TEMP / Humidity</b>	-40~+75°C;5%~90% RH Non condensing
<b>Storage TEMP / Humidity</b>	-40~+85°C;5%~95% RH Non condensing
<b>Dimension</b>	165*120*52mm
<b>Net /Gross Weight</b>	<1.0kg / <1.3 kg
<b>Lightning protection / protection level</b>	Lightning protection: 6KV 8/20us; Protection level:IP40 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 FCC Part 15/CISPR22(EN55022): Class B IEC61000-6-2(Common Industrial Standard)
<b>Mechanical Properties</b>	IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock)
	IEC60068-2-32 (free fall)
<b>Certification</b>	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;



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