

# DATASHEET

## ER-1812U8GE-IPS



### Products Unique.

In addition to the most famous brands, we are specialized in providing solutions with alternative products to impress customers and competitors. Customized. The flexibility of our vendors, allows us to get out of the box to find the perfect cut on the needs of the customer.



ER TLC srl

Our Offer

Planning

Analyzing the demand, we help the customer to find the best solution.

Supplying

We evaluate the most suitable products for each situation, assisting the customer in choosing the best way.

Post Sales

We follow the customer throughout the life of the product, to always be a guarantee of quality.

We offer solutions for every kind of connectivity

- ⊙ Copper
- ⊙ Fiber
- ⊙ Wireless

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# ER-1812U8GE-IPS

## FEATURES:

- 8\*1000M POE + 2\*100/1000M SFP+2\*1000M RJ45 ports 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;
- Support AI Watchdog, Port self-healing, VLAN, extend 300meter distance, Auto Speed Change, Priority port & reduce the after-resale.
- PoE default: 1, 2(+)/3, 6(-)
- Operation TEMP:-40~85°C
- Input voltage: DC48-57V, Redundant dual power 5-bit industrial terminals;
- IP protection level: IP40; Rail-type installation;

## INTRODUCTION:

The ER-1812U8GE-IPS is a 10/100/1000M industrial PoE fiber switch. It has 8\*10/100/1000M PoE ports and 2\*10/100/1000M RJ45 ports and 2\*100/1000M SFP slot ports, Port 1-8 can support IEEE 802.3af/at PoE standard, single port PoE power up to 30W, the maximum PoE output power 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 equipment such as wireless AP, webcam, VoIP phone, industrial sensor through network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy. Industrial scenes such as construction set up a cost-effective and stable communication network. Unmanaged model, plug and play, no configuration, easy to use.

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Model	ER-1812U8GE-IPS
Interface	8*10/100/1000Base-T PoE ports (Data/Power) 2*10/100/1000Base-T RJ45 ports (Data) 2*100/1000Base-X SFP 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 IEEE802.3u 100BASE-T/TX IEEE802.3ab 1000BASE-T IEEE802.3z 1000BASE-X IEEE802.3u 100BASE-FX IEEE802.3x.
PoE Standard	IEEE802.3af/at
Feature	With the Dial code switch, support port priority by default. E: AI Extend 300meters transmission and auto speed change of single port (limit 10Mbps), other ports maintain 100M/1000M within 100 meters; V: Turn on, 1-4 Port support each port Isolation & VLAN; D: Turn on, 1-4 Port support AI-PoE Network self-healing mode (PoE Watchdog function), Automatic solve the camera problem & reduce after-sale.
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
Switching Capacity	24Gbps (Non-blocking)
Forwarding Rate@64byte	17.856Mpps
MAC	8K
Buffer Memory	4M
Jumbo Frame	10K
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 (-)
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	120W (48-57VDC)
Power Consumption	Standby:<3W; Full load:<120W
LED Indicator	Power indicator: PWR (Green); Network indicator: 1-8(Link/Act)/(Green),9(Link/Act)/(Green), Speed/ (Orange); POE indicator: PoE (Orange)
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply
Operation TEMP / Humidity	-40~+75°C;5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+85°C;5%~95% RH Non condensing
Dimension	165*145*54mm
Net /Gross Weight	<1.3kg / <1.8 kg
Lightning protection / protection level	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 A IEC61000-6-2(Common Industrial Standard)
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty	5 years, lifelong maintenance.

