

**Over View:**

High Quality 12 Ports Full Gigabit Managed Industrial PoE Switch  
 8\*10/100/1000M POE + 4\*10G 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(-);  
 Support L2+ full network management,  
 PoE network management and configuration;  
 Switching capacity:128Gbps,  
 MAC table:16K;  
 Input voltage: DC48-57V,  
 Redundant dual power 6-bit industrial terminals;  
 IP protection level: IP40; Rail-type installation;

**Ethernet Interface:****Interface:**

- 8\*10/100/1000Base-T PoE ports (Data/Power)
- 4\*10G uplink SFP+ slot ports (Data)
- 1 \* RS232 console port(115200, N,8,1)
- 2 set of V+, V- redundant DC power interface (6 Pin Phoenix terminal)
- Single-pole double throw switch (FAULT)

**PoE Port:**

- Port 1-8 supports POE @ IEEE802.3af/at

**Network Management Type:**

- L2+

**Network Protocol:**

- IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;
- IEEE802.3u 100Base-TX;
- IEEE802.3ab 1000Base-T;
- IEEE802.3z 1000Base-X;
- IEEE802.3ae 10GBase-X;
- IEEE802.3x

**PoE Standard:**

- IEEE802.3af/at

**Ethernet Port Feature**

- 10/100/1000Base-T, Auto-sensing, Full/half duplex MDI/MDI-X self-adaption

**SFP Port Characteristic:**

- Gigabit SFP /10G SFP+ optical fiber interface, default matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)

**Forwarding Mode:**

- Store and Forward

**Switching Capacity:**

- 128bps (Non-blocking)

**Forwarding Rate@64byte:**

- 71.4.83Mpps

- Model: HOP3412S1312-4TP

**Ethernet Interface:**

MAC:

- 16K

Buffer Memory:

- 12M

Jumbo Frame:

- 10K

Twisted Pair Transmission:

- 10BASE-T: Cat3,4,5 UTP ( $\leq 100$  meter)
- 100BASE-TX: Cat5 or later UTP ( $\leq 100$  meter)
- 1000BASE-T: Cat5e or later UTP ( $\leq 100$  meter)

Optical Cable:

- Multimode: 850nm 0 ~ 500M;
- Single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.

Power Supply Pin:

- Only support 1/2 (+), 3/6 (-)

Working Voltage:

- 48-57VDC; 6 Pin industrial Phoenix terminal, support anti-reverse protection.

Max Power Per Port:

- 30W; IEEE802.3af/at

Total PWR / Input Voltage:

- 240W (48-57VDC)

Power Consumption:

- Standby: <12W; Full load: <240W

LED Indicator:

- Power indicator: PWR (Green); Network indicator: 1-8(Link/Act)/ (Orange),9-12(Link/Act)/ (Green); POE indicator: PoE (Green)

Power Supply:

- No, optional 48V/120W or 48V/240W industrial power supply

Reset Switch:

- Yes, One-button factory reset

Operation TEMP / Humidity:

- -40~+85°C; 5%~90% RH Non condensing

Storage TEMP / Humidity:

- -40~+125°C; 5%~95% RH Non condensing

- Model: HOP3412S1312-4TP

Dimension:

- 165\*148\*54mm

Net /Gross Weight:

- <1.1kg / <1.5kg

Lightning protection / protection level:

- Lightning protection: 6KV 8/20us; Protection level: IP40
- IEC61000-4-2(ESD):  $\pm 8$ kV contact discharge,  $\pm 15$ kV air discharge
- IEC61000-4-3(RS): 10V/m(80~1000MHz)
- IEC61000-4-4(EFT): power cable:  $\pm 4$ kV; data cable:  $\pm 2$ kV
- IEC61000-4-5(Surge): power cable: CM $\pm 4$ kV/DM $\pm 2$ kV; data cable:  $\pm 4$ kV
- 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)

Certification:

- CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;