

## Product introduction

10/100/1000M industrial Power over Ethernet Switch (PoE Switch), using industrial high-quality high-rate network IC and the most stable PoE chip available, industry standard design, IP40 protection, rugged high-strength metal case, power supply input (DC48-57V), -40 to 85°C operating temperature. PoE ports support 802.3af and 802.3at and 802.3bt standard. This series of PoE switches provide seamless connectivity to 10/100/1000M Ethernet, and PoE power ports can automatically detect and supply power with all IEEE 802.3af/at/bt compliant Powered Devices (PDs). Any Connected Non-PoE devices will only transmit data.

The industrial strength PoE switches have multiple surge protected ports supporting Gigabit data and 802.3af/at/bt, PoE, PoE+ and PoE++. In addition, there are two SFP ports which support up to 2.5Gb multimode or single mode fiber transceivers. Programming can be accomplished via the Serial Console port or via an Ethernet connection through the embedded comprehensive web-based user interface.

The PoE Switches are DIN35 rail mountable.

**Default IP: 192.168.2.1**

**Default Username: admin**

**Default Password: admin**

## Managed Switch Features

1. Supports 4 or 8 10/100/1000Base-TX PoE port and 2 Gigabit SFP(2.5G) ports and 1 console port
2. Supports: IEEE802.3,IEEE802.3u,IEEE802.3x,IEEE802.3z/ab, IEEE802.1Q,IEEE802.1p, IEEE802.1D/W IEEE802.3af/at/bt, store and forward
3. L2+ features provide better manageability, security, QoS, and performance.
4. Supports L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, PoE/ PoE+

PoE++ management, IP Source Guard, ARP inspection, ACLs, etc

5. Supports spanning tree STP(802.1D) and RSTP(802.1W). MSTP (802.1s) exchange time<50ms
6. Jumbo frames support up to 9.6K
7. Supports enhanced management through WEB, CLI, TELNET, SSH, SNMP
8. Compatible with IEEE802.3bt(90W), IEEE802.3at(30W) and IEEE802.3af(15.4W)

### 802.3bt (90W) Ports:

4 Port Switch = Ports 1-4

8 Port Switch = Ports 1-2

9. Ethernet ports support 10/100/1000M auto and PoE function. Supports Green Ethernet. Supports VeriPHY cable diagnostics.
10. IP40 protect grade, high strength metal shell, DIN35 Rail installation
11. Industrial grade design, -40 to 85°C working temperature.

## Technical Parameters

Network Protocols	IEEE802.3,IEEE802.3u,IEEE802.3z, IEEE802.3ab, IEEE802.3x, IEEE802.1d, IEEE802.1w
PoE Specification	PoE Standard: Supports IEEE802.3af (PoE) and IEEE802.3at (PoE+) and IEEE802.3bt (PoE++)
	Single PoE Port Power Output: Max. 15.4 watts (IEEE 802.3af) Max. 30 watts (IEEE 802.3at) Max. 90 watts (IEEE 802.3bt)
	<b>Maximum Total Power Output per Switch: 360W</b>
	PoE port Auto detect AF/AT/BT devices PoE Port Output Voltage: DC48V Power Pin Assignment:1/2/7/8 V- ;3/6/4/5V+
Network Media	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-TX: Cat6 or later UTP(≤100 meter)
Fiber Media	Multi-mode: 850/1310nm Distance: 550m/2Km Single-mode: 1310/1550nm Distance: 20-120Km
LED Display	FX, PWR, PoE Link/ Act
Power Supply	Input Voltage: DC52V (48~57V) 4 pin wire terminal block. 12AWG Max wire size
Working Environment	Operating temperature: -40~85°C Storage temperature: -40~85°C Relative Humidity: 5%~95 % (Non-Condensing)
Industry Standards	EMI: FCC Part 15, CISPR (EN55022) class A EMS: EN61000-4-2 (ESD) Air 15KV, Touch 8KV. EN61000-4-4 (EFT) EN61000-4-5 (Surge) 6KV Shock: IEC 60068-2-27, Free fall: IEC 60068-2-32 Vibration: IEC 60068-2-6
Certifications MTBF	CE, FCC, ROHS 100,000 hours

## Managed Parameters – L2+ Managed

Port Management	Enable/Disable Port, Speed, Duplex, MTU Settings, etc. Set PoE Mode or disable PoE. Turn PoE on/off. Flow control setup. Port Information View. Port access direction, VLAN image. Port speed limit, Port isolation Unknown unicast, multicast, broadcast storm suppression.
Spanning Tree Protocol	Standard Spanning Tree (STP) 802.1d Rapid Spanning Tree (RSTP) 802.1w Multiple Spanning Tree (MSTP) 802.1s
Link Aggregation	Supports static manual aggregation. LACP dynamic convergence 802.3ad
VLAN	Supports up to 4K VLANs Port based VLAN and 802.1Q VLAN
IGMP snooping	Supports static add/delete V1/2/3 dynamic multicast listener Supports 256 multicast groups
GMRP	Supports GARP multicast registration protocol
MAC	Supports static add/delete MAC address learning limit Supports dynamic aging time settings
ACL	Based on source/destination MAC, Protocol type. Source IP, Destination IP, L4 port number. Supports time-range time-period management.
QOS	Based on 802.1p (COS) classification. Based on DSCP classification. Based on source IP, destination IP, port number classification. Supports SP, WRR, DRR scheduling strategy. Supports rate speed limit CAR.

MPLS	Supports static LSP Supports MPLS VPN
LLDP	Supports LLDP link discovery protocol
802.1x	Supports 802.1x Port Based Authentication (Radius, Local)
Anti-Attack	DOS Defense Supports CPU protection, limits the rate of sending CPU packets. ARP Binding (IP, MAC, PORT Binding).
System Management	Add/Delete Users. User Login, operation, status, event log. Device reset, Configuration save/restore. Upgrade management, time setting, etc.
<b>Management Functions</b>	
CLI	Supports serial command line management
TELNET	Supports serial command line management
SNMP	Supports v1/2/3 Supports traps: ColdStart, WarmStart, LinkDown, LinkUp.
WEB	Supports two layers, three layers of view.



# Industrial PoE Switch

## Quick Start Guide