

# PoE Switch



## 16 Port Gigabit Layer2 Managed PoE Switch

### Product Profile

PS3016GS is managed PoE switch for security transmission and WIFI coverage, meet the need of PoE power supply for WIFI AP, IP-camera, WIFI bridge, IP phones and other types of equipment. New generation of high-performance hardware and software platforms are used, providing flexible, cost-effective full Gigabit access and uplink ports, complete security mechanisms, improved ACL / QoS strategy and rich VLAN capabilities. It is easy to manage and maintain, meet the users' requirements for network equipment easy to manage, high security and low cost. Supporting Apollo Cloud One-stop Management Platform, realizing status checking and management monitoring functions, suitable for campus, Hotel and enterprise park network access, convergence, core multi-application scenarios

### Features

- Layer L2 Switch OSI Module
- Complies with IEEE802.3af/at Standard
- Support RJ45 Auto-MDI/MDIX
- Supports PoE Power up to 46W for each PoE port
- Auto detect power device
- Remote power and Data feeding up to 100m
- Flow Control for Full Duplex operation and back pressure for Half Duplex Operation
- Support Energy-Efficient Ethernet (EEE) function (IEEE802.3az)
- Supports a complete lineup of L2 features, including 802.1Q tag VLAN, Port Mirroring, STP/RSTP/MSTP
- LinkAggregation Control Protocol and 802.3x Flow Control function
- Web Browser , CLI (Console Port, Telnet, SSH), SNMP and RMON bring abundant management policies
- Support PD Alive function (the switch port is disconnected will automatically connected)
- Passed the standard certification CE, FCC



### Specification

Network port	16 10/100/1000Mbps RJ45 port 2 Gigabit SFP/SFP+ / 1 Console
Flash	16MB
SRAM	128MB
Bandwidth	36Gbps
Packet Forward Rate	23.8Mpps
Jumbo frame size	10K
Transmission rate	26.8Mpps
Mac Adress Table	8K
Transmission method	store and forward
PoE	16 Port 10/100/1000Mbps RJ45 Support PoE+ Max 150W Single port max 46W
LEDs indicator	18 Link/Act LEDs 16 PoE LEDs 1 Sys LED 1 Power LED
Lightning Protection	6KV
Electrostatic Discharge	No barrier: +/-6KV Air : +/-8KV
Power Input	100-240V/50-60Hz
Working Environment	Working temperature: 0°~40°C Operating Humidity:10%~90%(Non-condensing)
Storage Environment	Working temperature: -40°~70°C Operating Humidity: 5%~90%(Non-condensing)
Dimension (L*W*H)	440mm x 180mm x 44mm

## 16 Port Layer2 POE Switch

### Software Specification

#### Protocol standard

- IEEE 802.3:Ethernet Media Access Control (MAC) Protocol
- IEEE 802.3i:10BASE-T Ethernet
- IEEE 802.3u:100BASE-TX Fast Ethernet
- IEEE 802.3ab:1000BASE-T Gigabit Ethernet
- IEEE 802.3z:1000BASE-X Gigabit Ethernet (fiber)
- IEEE 802.3ad:Standard method for performing link aggregation
- IEEE 802.3x:flow control
- IEEE 802.1p:LAN Layer 2 QoS/Cos protocol for traffic priority (multicast filtering)
- IEEE 802.1q:VLAN
- IEEE 802.1d:STP Spanning tree
- IEEE 802.1s:MSTP Spanning tree
- IEEE 802.1w:RSTP Spanning tree
- IEEE 802.3af
- IEEE 802.3at

#### Shortcut function

- One key AI VLAN
- One key AI Extend(1-8 port 250meters PoE distance)
- One key AI PoE
- One key QoS (Video priority)

#### DHCP

- Support DHCP Snooping

#### VLAN

- Support 4K VLAN
- Support 802.1Q VLAN, MAC VLAN, IP VLAN
- Voice VLAN

#### Link aggregation

- Support Static aggregation
- Support Dynamic aggregation
- Support IP, MAC, and hybrid load balancing modes
- Support up to 32 aggregation group

#### Storm suppression

- Support muticast suppression
- Support broadcast suppression
- Support unknown unicast suppression

#### MAC address table

- Comply the IEEE 802.1d standard
- Support MAC address learning and aging automatically
- Support static, dynamic, filter address table

#### Safety

- Support based on the port number, IP address, MAC address restrictions on user access
- Support HTTPS, SSL V3, TLS V1, SSH V1/V2
- Support IP-MAC-PORT ternary binding
- Support ARP protection, IP source protection, DoS protection
- Support DHCP Snooping, DHCP attack protection
- Support 802.1X certificated, AAA
- Support port security, port isolation
- Support CPU protection

#### POE management

- Support POE power limit / - Support POE chip status view
- Support setting PoE port priority
- Support setting PoE power supply time period

#### Access control (ACL)

- Support L2 (Layer 2) ~ L4 (Layer 4) packet filtering
- Support port mirroring, port redirection, flow rate limiting, QoS re-marking

#### IPv6

- Support IPv6 Ping, IPv6 Tracert, IPv6 Telnet
- Support IPv6 SSH, IPv6 SSL

#### Quality of Service (QoS)

- Support 8 port queue
- Support port priority, 802.1p priority, DHCP priority
- Support SP, RR, WFQ Priority scheduling algorithm

#### Spanning tree

- Support STP(IEEE 802.1d), RTSP(IEEE802.1w) and MSTP (IEEE802.1s) protocol
- Support loop protection, root bridge protection, TC protection
- BPDU protection, BPDU protection