**BCZW**

# 48Ports 1000Mbps Managed PoE Switch with 4Ports 10G SFP+

**2 YEAR EXCLUSIVE WARRANTY**

**SP7500-48GP4TF-L3M**

IPv6/IPv4 ACL/QoS

MSTP RSTP

6KV Lightning Protection

## Key Features:

**Ports:** Provide 48*10/100/1000Mbps PoE ports with 4 Ports 1/10G SFP+ Uplink，1USB，1Console

**PoE Standard:** IEEE802.3af/at Power over Ethernet (PoE) Compliant

**Self-adaption:** RJ45 port supports 1000Mbps Auto MDI/MDIX

**Fiber Port:** 4 Ports 1/10G SFP+ Uplink

**Wide Application:** Designed for Wifi AP and IP Security camera.VoIP etc

**Managed:** Support remote web managed,VLAN and storm control and IPV6 management etc.
Layer3 Features, Static route，RIP，OSPF etc.

**Surge protection:** Protect the device from lighting surges and others electrical hazards

**Installation:** Rack mount with easy installation

## Introducing a new Gigabit Managed POE Switch for future-proof deployments

Benchu Group 48-Port Gigabit Web Smart PoE+ Switch with 48 1000BASE-T PoE+ ports and four 10G SFP+ slots,It delivers advanced management features with an 256Gbps switching capacity. The SP7500-48GP4TF-L3M is equipped with 1000BASE-T PoE+ ports that provide higher gigabit speeds capable of up to 1000Mbps over existing Cat5e or better cabling. This switch provides eight PoE+ connections with a Max power budget of 400W/600W, and supplies up to 30W of power per port for devices such as wireless access points, PTZ IP cameras, and VoIP telephony systems.

## 1000Mbps Capability for Diversified Bandwidth Applications

With the terminal access rates of 802.11ac wireless APs reaching as high as 1Gbps, 100M ports has been unable to satisfy the demand. Supporting 1Gbps capability and 802.3af/at POE output, the SP7500-48GP4TF-L3M can deliver not only data to 802.11ac wireless APs, but also power to other powered devices such as APs and IP cameras.

## 10 Gbps SFP Ports Optimize Network Performance

The SP7500-48GP4TF-L3M provides greater bandwidth and powerful processing capacity. It offers a maximum 40Gbps uplink bandwidth through the Four 10Gbps SFP+ ports. In addition, the administrator can flexibly choose the suitable SFP/SFP+ transceiver according to the transmission distance or the transmission speed required to extend the network efficiently.

## Cost-effective IPv6 Managed Gigabit Ethernet Switch Solution

With layer 3 managed Gigabit Ethernet Switch, It provides IPv6/IPv4 management and built-in L2/L4 Gigabit Switching engine, and supports high-speed transmission of surveillance images and videos.

## Surge Protection Design

Reaching 6KV surge protection, the Ethernet ports owns the capacity to keep the Ethernet Switch from lightning strikes and other electrical surges, offering reliable performance even in some harsh environments.

# SP7500-48GP4TF-L3M

48 ports 1000Mbps Managed PoE Switch with 4 Ports 10G SFP+ Uplink

## Technical Datasheet

| Model | SP7500-48GP4TF-L3M | |
|---|---|---|
| **Hardware Specifications** | | |
| Connector | 48* 10/100/1000BASE-T RJ45 auto MDI/MDIX ports<br>4* 10G Base-X SFP+ Slots Uplink<br>1 Console port，1USB | |
| Uplink port | 4* 10G Base-X SFP+ Slots | |
| LED Display | Power Indicator: PWR(green).<br>Network Indicator: Link(yellow)<br>POE: Orange<br>SFP: Green | |
| Thermal Fan | Fanless Design | |
| Network Standard | IIEEE 802.3u 100BASE-TX/100BASE-FX<br>IEEE 802.3z 1000BASE-SX/LX<br>IEEE 802.3ab 1000BASE-T<br>IEEE 802.3ae 10Gb/s Ethernet<br>IEEE 802.3x flow control and back pressure<br>IEEE802.3az EEE | |
| Switch Architecture | Store and Forward | |
| Transmission model | IEEE802.3X full-duplex and Backpressure half-duplex | |
| Switch Performance | Backplane bandwidth | 256Gbps |
| | Packet forwarding rate | 232Mpps |
| | MAC address | 32k |
| Power requirement | AC100-240V 50/60Hz | |
| ESD Protection | 6KV ESD | |
| Dimension | 440mm x 290mm x 44.5mm(17.32in x 11.42in x 1.75in) | |
| Weight | 6kg | |
| Environment | Operating temperature: -20℃~55℃，operating humidity: 5％~95％<br>Storage temperature: -40℃~75℃，storage humidity: 5％~95％ | |
| Safety | FCC Part15 Class A,CE.RoHs | |

| **Power over Ethernet (PoE) Specifications** | |
|---|---|
| PoE Standard | IEEE 802.3af Power over Ethernet/PSE<br>IEEE 802.3at Power over Ethernet Plus/PSE |
| PoE Supply Type | 1/2(+), 3/6(-) End-span |
| PoE Power Output | Per Port 52V DC, 300mA. max. 15.4 watts (IEEE 802.3af)<br>Per Port 52V DC, 600mA. max. 30 watts (IEEE 802.3at) |
| PoE Power budget | 400W/600W |

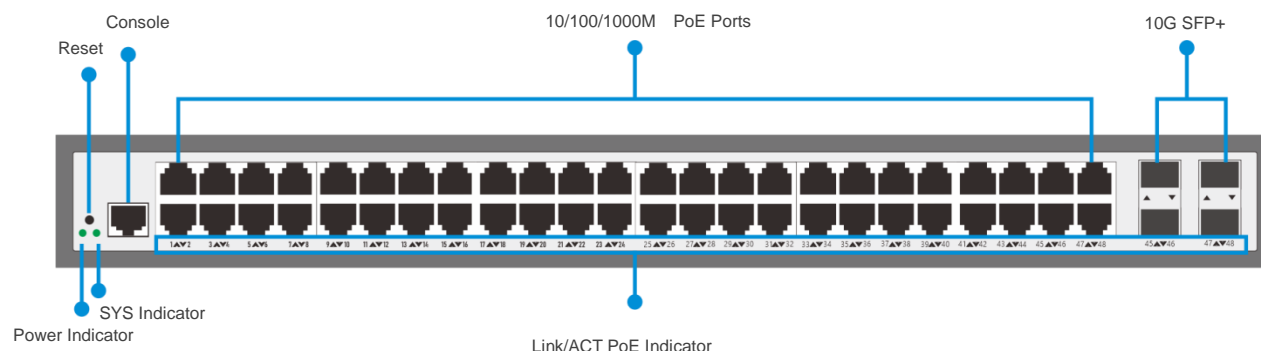| Layer 3 Functions | |
|---|---|
| Port Mirroring | TX / RX / both    Many-to-1 monitor |
| Vlan | 802.1Q tagged-based VLAN |
| | Up to 256 VLAN groups, out of 4094 VLAN IDs |
| | 802.1ad Q-in-Q tunneling |
| | Voice VLAN;Protocol VLAN;Private VLAN (Protected port),GVRP |
| Link Aggregation | IEEE 802.3ad LACP and static trunk |
| | Supports 8 groups of 8-port trunk |
| Spanning Tree Protocol | STP, IEEE 802.1D Spanning Tree Protocol |
| | RSTP, IEEE 802.1w Rapid Spanning Tree Protocol |
| | MSTP, IEEE 802.1s Multiple Spanning Tree Protocol |
| IGMP Snooping | IGMP (v2/v3) snooping；IGMP querier；Up to 256 multicast groups |
| MLD Snooping | MLD (v1/v2) snooping, up to 256 multicast groups |
| Access Control List | IPv4/IPv6 IP-based ACL / MAC-based ACL |
| PoE Management | Open or close port<br>Standard POE scheduling management Power and current display<br>Automatic restarting function of equipment dead machine Timing<br>Support IP bindings restarting |
| Layer 3 Features | IPV4/IPV6 VRRP, the maximum group is 255 |
| | IPV4/IPV6 static route/default route supports up to 128 entries |
| | IPV4 dynamic routing, RIPv1/v2, OSPFv2, 4000 routing entries |
| | IPV6 dynamic routing OSPFv3, RIPng, IPV6 management, 1000 routing entries |
| | L3 network management function, IPV4/IPV6 dual-stack management |
| | Layer 3 routing and forwarding, support communication between different network segments |
| | and different VLANs |
| QoS | 8 mapping ID to 8 level priority queues |
| | --- Port number |
| | --- 802.1p priority |
| | --- 802.1Q VLAN tag |
| | --- DSCP field in IP packet |
| | Traffic classification based, strict priority and WRR |
| Security | IEEE 802.1X port-based authentication |
| | Built-in RADIUS client to co-operate with RADIUS server |
| | RADIUS / TACACS+ user access authentication；IP-MAC port binding；MAC filtering； |
| | Static MAC address；DHCP Snooping and DHCP Option82；STP BPDU guard, |
| | BPDU filtering and BPDU forwarding；DoS attack prevention；ARP inspection |
| Management Function | |
| Basic Management Interfaces | Web browser / Telnet / SNMP v1, v2c, V3 |
| | Firmware upgrade by HTTP / TFTP protocol through Ethernet network |
| | Remote / Local Syslog,System log,LLDP protocol ,SNTP |
| Secure Management Interfaces | SSH, SSL, SNMP |
| SNMP MIBs | RFC 1213 MIB-II |
| | RFC 1215 Generic Traps |
| | RFC 1493 Bridge MIB |
| | RFC 2674 Bridge MIB Extensions |
| | RFC 2819 RMON (1, 2, 3, 9) |
| | RFC 2863 Interface Group MIB |
| | RFC 3635 Ethernet-like MIB |

# SP7500-48GP4TF-L3M

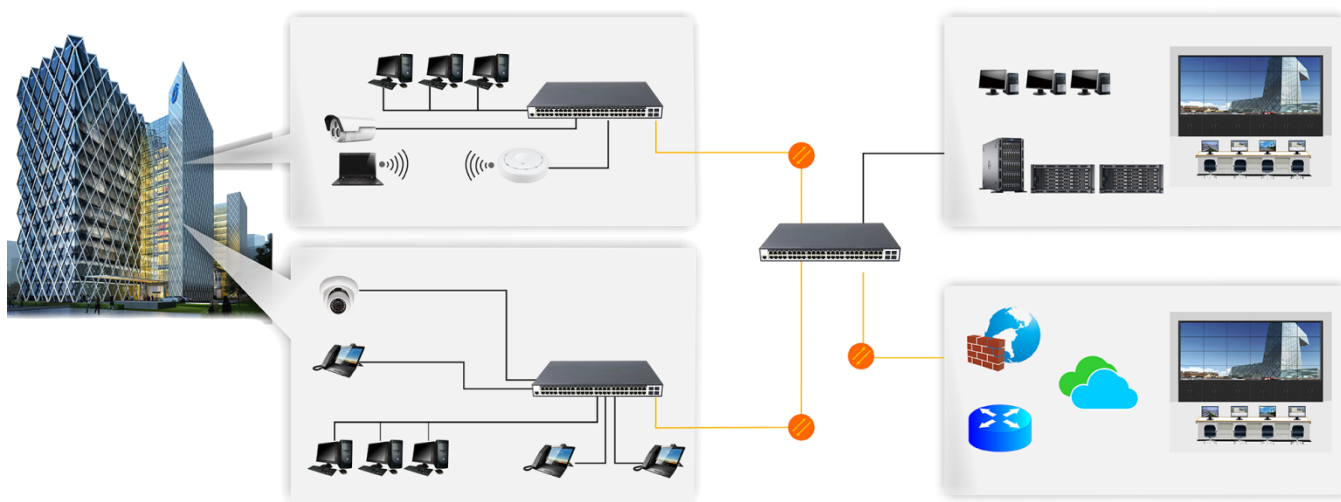48 ports 1000Mbps Managed PoE Switch with 4 Ports 10G SFP+ Uplink

## Interfaces



Reset
Console
10/100/1000M PoE Ports
10G SFP+

Power Indicator
SYS Indicator
Link/ACT PoE Indicator

## Structure Diagrams



440mm(17.32in)

290mm
(11.42in)

44.5mm
(1.75in)
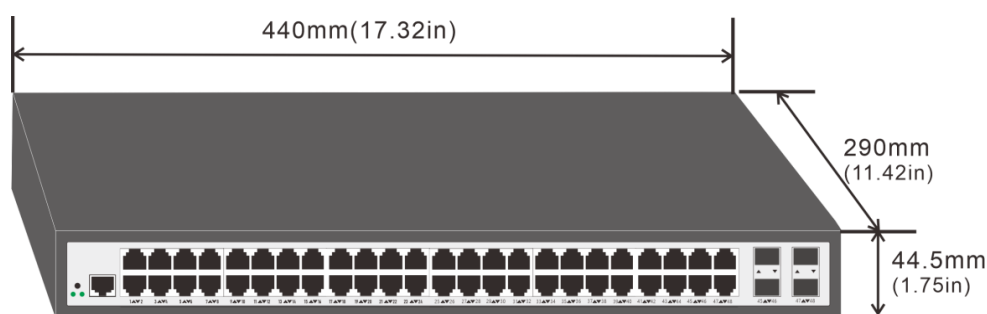
## Applications



## Ordering Information

| SP7500-48GP4TF-L3M | 48 Ports 10/100/1000Mbps Managed PoE switch with 4 Ports 10G SFP+ Uplink 6KV surge protection |
|---|---|