



All ports PoE+ with up to 760W PoE budget and Remote Management option
Select your new network engine!

As a leading provider of network equipment for SMBs, Benchu group understands the importance of providing a great choice of PoE port counts and power budgets that can adapt to your business' needs, whether in the hospitality, catering, education or retail domains.

The SP7500-48PGE4GF-L2M and SP7500-48PGE4GF-L2M-800W Gigabit Ethernet Switches with PoE+ and 4 SFP Ports join the Benchu group Standalone Smart Switches family, adding full 48 port PoE+

support for deployment of modern high-power PoE devices. Cautious spender organizations can now deploy denser PoE+ devices connected to a cost-effective switch, with a reasonable PoE power budget of 460W over 48-port. Organizations who buy infrastructure for the long term and want future proofing for the unforeseeable can now select a switch with a PoE power budget of 760W over 48-port providing more headroom.

Support 4 Ports 1.25G SFP Uplink, provides greater bandwidth and powerful processing capacity. It offers a maximum 5Gbps uplink bandwidth through the Four 1.25Gbps SFP ports. In addition, the administrator can flexibly choose the suitable SFP transceiver according to the transmission distance or the transmission speed required to extend the network efficiently.

## **Highlights**

The Benchu group PoE+ gigabit smart switches with remote management provides a great value, with configurable L3 network features like VLANs and PoE operation scheduling, allowing SMB customers to deploy PoE-based VoIP phones, IP cameras, video-over-IP endpoints and Wireless access points simply and securely. Advanced features such as IPv4/IPv6 Layer 3 static routing, LACP link aggregation, DiffServ QoS, Private VLANs, Multicast VLAN and Spanning Tree will satisfy even the most advanced small business networks.



### Key features include:

- Layer 3 static routing (IPv4 and IPv6)
- IPv4 / IPv6 Dual stack and switch virtual interfaces (SVIs)
- Advanced VLAN and Private VLAN support for better network segmentation
- L2/L3/L4 access control lists (ACLs) for granular network access control including 802.1x port authentication
- Advanced per port PoE controls for remote power management of PoE connected devices including operation scheduling (e.g. Wireless APs, IP security cameras, LED lighting, secure access door locks, IoT devices...)
- Advanced QoS (Quality of Service) for traffic prioritization including port-based, 802.1p and L2/L3/L4 DSCP-based
- Auto "denial-of-service" (DoS) prevention
- IGMP Snooping and Querier for multicast optimization
- Dynamic ARP for increased security targeting a class of Man in the Middle attack
- · Rate limiting and priority queuing for better bandwidth allocation
- Port mirroring for network monitoring
- Energy Efficient Ethernet (IEEE 802.3az) for maximum power savings
- SNMP v1, v2c and RMON remote monitoring

### Build a future-proof network with BENCHU:

- Solid performance with non-blocking architecture, 32K MAC addresses, 100 shared (ingress) ACLs and 512 Multicast groups
- Comprehensive IPv6 supporting management, QoS, ACL and routing, ensuring investment protection and a smooth migration to IPv6-based network
- · PoE+ support on all models and on all ports
- 4 Dedicated SFP, not only providing fiber uplinks, but also uplink redundancy and failover, improving reliability and availability for the network

### Four Gigabit High-speed SFP Fiber Uplink

• The swith with four SFP uplink ports with 1.25G adjustable transfer rate to ensure high-speed data and video transmission, reliable assurance for connection between the surveillance system and outside network. The SFP slot meaning the administrator now can flexibly choose the suitable SFP transceiver based on the transmission distance or the transmission speed required to extend the network efficiently. The distance can be extended from 100 meters to 300 meters (multi-mode fiber) and 10/20/30/40/50/60/70/120 kilometers (single-mode fiber or WDM fiber). They are well suited for applications to uplink to backbone switch in long distance and high-speed.

### **BENCHU Quality and Reliability**

- Low power consumption, with fan.
- high redundancy design, providing a long termand stable PoE power output.
- CE, FCC, RoHS,CB.
- The user-friendly panel can show the device status through the LED indicator of PWR, Link.

### Easy operation and maintenance management

- Web management, CLI command line (Console, Telnet), SNMP (V1/V2).
- HTTPS, and SSHV1/V2.
- RMON, system log, LLDP, and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.



## Hardware at a Glance

FRONT					REAR	SIDE
Model Name	10/100/1000Base-T RJ45 ports	1.25GBASE-X Fiber SFP Ports	PoE+ 802.3at Ports	Power Budget	Power Supply	Fans
SP7500-48PGE4GF-L2M	48	4	48 PoE+	500W	1 internal PSU, fixed	2 internal fans, fixed
SP7500-48PGE4GF-L2M -800W	48	4	48 PoE+	800W	1 internal PSU, fixed	2 internal fans, fixed

## Software at a Glance

LAYER 2+ / LAYER 3 LI	TE FEATURES						
Management	IPv4/IPv6 ACL and QoS	IPv4/IPv6 Multicast Filtering	G.8032 ERPS STP/RSTP/MSTP	IEEE (802.3az) Energy Efficient Ethernet	VLANs	Convergence	IPv4 & IPv6 Static Routing RIP/OSPF/VRRP
Web Browser-based GUI (HTTP/HTTPS), PC-Based Smart Control Center Utility (SCC) , RMON, SNMP	L2, L3, L4, ingress	IGMP and MLD Snooping	Yes	Yes	Static Dynamic, Voice, MAC, Protocol-based	LLDP-MED, RADIUS, 802.1X	Yes

## Performance at a Glance

Model Name	Packet buffer	СРИ	ACLs	MAC Ad- dress Table ARP Table VLANs	Fabric	Latency (Max Connection Speed)	Static Routes (IPv4 & IPv6)	Multicast IGMP Group
SP7500-48PGE4GF-L2M	16MB	Realtek	100 shared	32K MAC 1024 ARP 4K VLANs	360Gbps 131Mpps	1G Copper: <3.35μs 1G Fiber: <2.96μs	IPv4: 100 IPv6: 100	512
SP7500-48PGE4GF-L2M-800W				QinQ	line-rate			



## **Features and Benefits**

Hardware Features	
1000BASE-T Copper Ethernet PoE+ connections	Support high-density VoIP, Surveillance and Wi-Fi AP deployments, scal-able for future growth. Never face the risk of running out of PoE ports.
1.25GBASE-X Fiber SFP ports	Four dedicated 1.25G SFP ports for aggregation to the network core.  Support for Fiber and Copper modules. Can also build dual redundancy by a trunked uplink with link aggregation.
Great choice of PoE port counts and PoE power budgets that can adapt to the business's needs	460W or 760W PoE budget available across 48 Gigabit PoE+ ports (802.3at) — Connect multiple power demanding devices to your network with a single wire for power and connectivity.
Energy Efficient Ethernet (IEEE 802.3az)	Maximum power reduction for onging operational cost savings.
Software Features	
Comprehensive IPv6 Support for Management, ACL and QoS	Build current network with future in mind. Ensure investment protection and a smooth migration to an IPv6-based network without switch replacement.
IPv4 & IPv6 Static Routing	A simple way to provide segmentation of the network with internal routing through the switch – reserving the router for external traffic routing only, making the entire network more efficient.
Robust security features:  • 802.1x authentication (EAP)  • Port-based security by locked MAC  • ACL filtering to permit or deny traffic based on MAC and IP addresses	Build a secured, converged network with all types of traffic by preventing external attacks and blocking malware while allowing secure access for authorized users.
Comprehensive QoS features:  • Port-based or 802.1p-based prioritization  • Layer 3-based (DSCP) prioritization  • Port-based ingress and egress rate limiting	Advanced controls for optimized network performance and better delivery of mission-critical traffic such as voice and video.
IGMP (IPv4) and MLD (IPv6) Snooping and Querier modes with Fast Leave	Facilitate fast receiver joins and leaves for multicast streams. Save cost and improve network efficiency by ensuring multicast traffic only reaches designated receivers without the need of an extra multicast router.

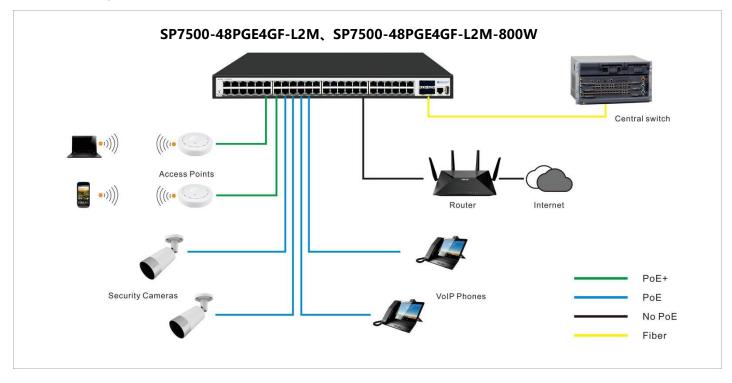


Software Features (continued)				
	Ensure no exchange of unicast, broadcast, or multicast traffic between			
	the protected ports on the switch, thereby improving the security of			
Protected Ports	your converged network. This allows your sensitive phone			
Trotected Forts	conversations to stay private and your surveillance video clips can be			
	forwarded to their designated storage device without leakage or			
	alteration.			
	Ensure IP address allocation integrity by only allowing DHCP messages			
	from trusted DHCP servers and dropping malformed DHCP messages			
DUCD Spaning and Dynamic ADD Inspection	with a port or MAC address mismatch. Use the DHCP snooping bindings			
DHCP Snooping and Dynamic ARP Inspection	database per port and per VLAN to drop incoming packets that do not			
	match any binding and to enforce source IP/MAC addresses for			
	malicious users traffic elimination.			
	IP phones and PCs can authenticate on the same port but under			
Dynamic VLAN Assignment (RADIUS)	different VLAN assignment policies. Users are free to move around and			
	enjoy the same level of network access regardless of their physical			
	location on the network.			



## **Target Application**

### **Network Convergence**



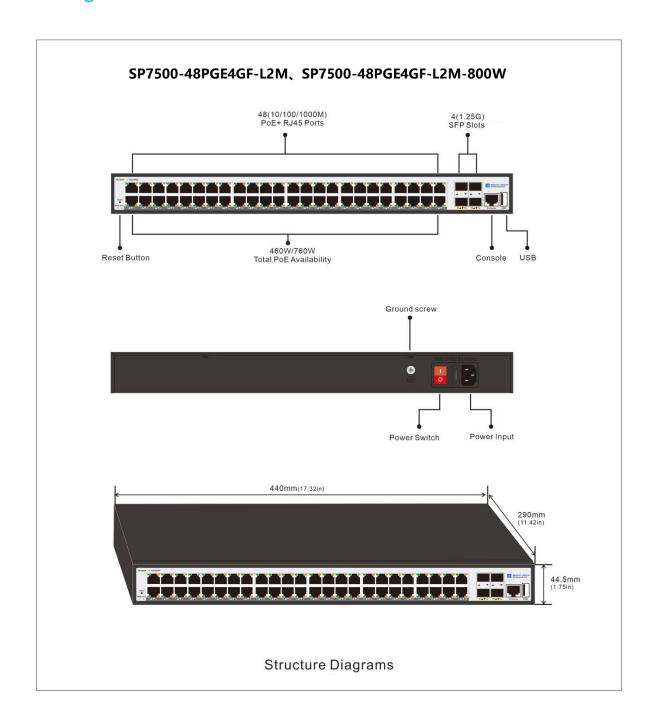
Within small and medium-sized organizations — especially in the hospitality, catering, education, and retail industries — there is growing deployment of VoIP phones, IP security cameras, video-over-IP endpoints, proximity sensors, LED lighting, secure access door locks, and other IoT devices. The dense proximity of these devices requires network switches capable of supporting PoE so a network manager can add power-hungry devices to the network with a single wire for power AND connectivity. Wave 2 802.11ac wireless access points and pan-tilt-zoom HD surveillance cameras with features such as night vision and built-in motion tracking also require PoE+ power (802.3at), increasing the power demands on PoE switches.

The new 48-port BENCHU GROUP Smart Switches support dense deployments of these modern high-power PoE+ devices. They offer powerful Layer 2 and Layer 3 features for IPv4 and IPv6 with enhanced performance and a focus on usability within SMB environments:

- 460W (SP7500-48PGE4GF-L2M) or 760W (SP7500-48PGE4GF-L2M-800W) PoE budget across 48 Gigabit PoE+ ports
- 4 dedicated 1.25G SFP fiber ports for aggregation to the network core
- Layer 3 static routing (IPv4 and IPv6) for interVLAN local routing
- Layer 3 RIPv1、v2, OSPFv1、v2, VRRP for multiple routing
- IGMP Snooping, IGMP Querier and IGMP Fast Leave for multicast optimization
- ERPS(G.8032) STP/FSTP/MSTP for Ring network and Link protection
- Include VLANs, PoE scheduling, ACLs, DiffServ, LACP, MVR and DHCP
- Easy-to-use Web browser-based management GUI No need for an IT expert
- Limited Lifetime\* Warranty, Tech support



## **Structure Diagrams**





Technical Specifications	SP7500-48PGE4GF-L2M	SP7500-48PGE4GF-L2M-800W	
10M/100M/1G RJ-45 copper ports	48	48	
PoE / PoE+ ports	48 PoE+ (460W PoE budget)	48 PoE+ (760W PoE budget)	
1.25G SFP (fiber) ports	4 (dedicated)	4 (dedicated)	
Console Port (For config )	Yes	Yes	
USB port (for config file upload/backup & firm-ware updates)	Yes	Yes	
Performance Specification			
CPU	Re	ealtek	
Packet buffer memory (Dynamically shared across only used ports)	16	5 MB	
Forwarding modes	Store-ar	nd-forward	
Bandwidth	360	) Gbps	
Priority queues		8	
MAC address database size (48-bit MAC ad-dresses)	1	32K	
Multicast groups		1K	
Number of IPv4 static routes	:	100	
Number of IPv6 static routes	:	100	
Number of VLANs	4	094	
Number of VLANs(Open QinQ)	16,760,836(4094*4094)		
Number of ARP cache entries	1024 ARP		
Number of DHCP snooping bindings	!	512	
Access Control Lists (ACLs)	100 shared for MAC, I	P and IPv6 ACLs (ingress)	
Packet forwarding rate (64 byte packet size) (Mpps)	131	131	
Jumbo frame support (bytes)	Up to 12k	C packet size	
Mean Time Between Failures (MTBF) @ 25°C	137,411 hours	117,549 hours	
100M Copper Latency (64-byte; 1518-byte; 9216-byte frames)	8.314µs; 8.612µs; 8.451µs	8.314μs; 8.612μs; 8.451μs	
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	3.614µs; 3.545µs; 3.628µs	3.614µs; 3.545µs; 3.628µs	
1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	2.980μs; 3.101μs; 3.179μs	2.980μs; 3.101μs; 3.179μs	



L2 Services - VLANs	SP7500-48PGE4GF-L2M SP7500-48PGE4GF-L2M-800W
IEEE 802.1Q VLAN tagging	Yes
QinQ VLAN tagging	Yes
IP-based VLANs	Yes
MAC-based VLANs	Yes
Protocol-based VLAN	Yes
Voice VLAN	Yes
VLAN mapping	Yes
L2 Services - Availability	
Broadcast, multicast, unknown unicast storm control	Yes
IEEE 802.3ad - LAGs (LACP)	Yes
IEEE 802.3x (full duplex and flow control)	Yes
IEEE 802.1D Spanning Tree Protocol	Yes
IEEE 802.1w Rapid Spanning Tree Protocol	Yes
IEEE 802.1s Multiple Spanning Tree Protocol	Yes
ITU-TG.8032 (ERPS)	Yes, Recovery time < 50ms
L2 Services - Multicast Filtering	
IGMP snooping (v1, v2 and v3)	Yes
MLD snooping support (v1 and v2)	Yes
IGMP snooping querier (v2)	Yes
MLD snooping querier (v1)	Yes
Multicast VLAN Registration (MVR)	Yes
L3 Services - DHCP	
DHCP client	Yes
DHCP snooping	Yes
DHCP Server	Yes
L3 Services - Routing	
IPv4 static routing	Yes
IPv6 static routing	Yes



Manual LAG Yes # of LAGs / # of members in each LAG 8 LAGs with max 8 members in each LAG  Network Monitoring and Discovery Services  802.1 ab LLDP Yes  802.1 ab LLDP Yes  802.1 ab LLDP Yes  NETWORK Security  IEEE 802.1x Yes  RADIUS accounting Yes  Access Control Lists (ACLs) Yes  IP-based ACLs (IP-v4 and IPv6) L2 / L3 / L4  MAC-based ACLs Yes  CONTROL MAC # static entries 48  Port-based security by locked MAC addresses Yes  Dynamic ARP inspection Yes  Broadcast, unicast, multicast DoS protection Yes	Link Aggregation	SP7500-48PGE4GF-L2M SP7500-48PGE4GF-L2M-	800W
# of LAGs / # of members in each LAG  Network Monitoring and Discovery Services  802.1ab LLDP  Yes  SNMP  V1, v2c, v3  RMON group 1,2,3,9  Yes  Network Security  IEEE 802.1x  Yes  RADIUS accounting  Yes  Access Control Lists (ACLs)  Yes  IP-based ACLs (IPv4 and IPv6)  L2 / L3 / L4  MAC-based ACLs  Yes  Control MAC # static entries  48  Port-based security by locked MAC addresses  Dynamic ARP inspection  Yes  Broadcast, unicast, multicast DoS protection  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes  Broadcast, unicast, multicast DoS protection  Yes	IEEE 802.3ad - LAGs (LACP)	Yes	
Network Monitoring and Discovery Services  802.1 ab LLDP Yes  SNMP V1, v2c, v3  RMON group 1,2,3,9 Yes  Network Security  IEEE 802.1x Yes  RADIUS accounting Yes  Access Control Lists (ACLs) Yes  IP-based ACLs (IPv4 and IPv6) 12 / L3 / L4  MAC-based ACLs Yes  CONTROL MAC # static entries 48  Port-based security by locked MAC addresses Ves  Dynamic ARP inspection Yes  Broadcast, unicast, multicast DoS protection Yes	Manual LAG	Yes	
802.1ab LLDP Yes SMMP V1, V2c, V3 RMON group 1,2,3,9 Yes Network Security  IEEE 802.1x Yes RADIUS accounting Yes Access Control Lists (ACLs) Yes IP-based ACLs (IPV4 and IPV6) L2 / L3 / L4 MAC-based ACLs Yes COntrol MAC # static entries Yes Control MAC # static entries 48 Port-based security by locked MAC addresses Ves Dynamic ARP inspection Yes Broadcast, unicast, multicast DoS protection Network storm protection, DoS Broadcast, unicast, multicast DoS protection Yes	# of LAGs / # of members in each LAG	8 LAGs with max 8 members in each LAG	
SMMP v1, v2c, v3 RMON group 1,2,3,9 Yes  Network Security  IEEE 802.1x Yes  RADIUS accounting Yes  Access Control Lists (ACLs) Yes  IP-based ACLs (IPv4 and IPv6) L2 / L3 / L4  MAC-based ACLs  Yes  TCP/UDP-based ACLs  Yes  TCP/UDP-based ACLs  Yes  TCP/UDP-based ACLs  Yes  Donamic ARP inspection Yes  Broadcast, unicast, multicast DoS protection Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection Yes	Network Monitoring and Discovery Services		
RMON group 1,2,3,9  Network Security  IEEE 802.1x  Yes  RADIUS accounting Yes  Access Control Lists (ACLs) P-based ACLs (IPv4 and IPv6)  IZ / L3 / L4  MAC-based ACLs Yes  TCP/UDP-based ACLs Yes  TCP/UDP-based ACLs Yes  Control MAC # static entries 48  Port-based security by locked MAC addresses Yes  Dynamic ARP inspection Yes  Broadcast, unicast, multicast DoS protection Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection Yes  Broadcast, unicast, multicast DoS protection Yes	802.1ab LLDP	Yes	
Network Security  IEEE 802.1x Yes  RADIUS accounting Yes  Access Control Lists (ACLs) Yes  IP-based ACLs (IPv4 and IPv6) L2 / L3 / L4  MAC-based ACLs Yes  TCP/UDP-based ACLs Yes  Control MAC # static entries 48  Port-based security by locked MAC addresses Yes  Dynamic ARP inspection Yes  Broadcast, unicast, multicast DoS protection Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection Yes  Proadcast, unicast, multicast DoS protection Yes  Network storm protection, DoS Yes	SNMP	v1, v2c, v3	
IEEE 802.1x  RADIUS accounting  Yes  Access Control Lists (ACLs)  Yes  IP-based ACLs (IPv4 and IPv6)  L2 / L3 / L4  MAC-based ACLs  Yes  TCP/UDP-based ACLs  Yes  Control MAC # static entries  48  Port-based security by locked MAC addresses  Dynamic ARP inspection  Yes  Broadcast, unicast, multicast DoS protection  Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes	RMON group 1,2,3,9	Yes	
RADIUS accounting  Access Control Lists (ACLs)  Yes  P-based ACLs (IPv4 and IPv6)  L2 / L3 / L4  MAC-based ACLs  Yes  TCP/UDP-based ACLs  Yes  Control MAC # static entries  48  Port-based security by locked MAC addresses  Dynamic ARP inspection  Yes  Broadcast, unicast, multicast DoS protection  Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes	Network Security		
Access Control Lists (ACLs)  P-based ACLs (IPv4 and IPv6)  L2 / L3 / L4  MAC-based ACLs  Yes  TCP/UDP-based ACLs  Yes  Control MAC # static entries  48  Port-based security by locked MAC addresses  Dynamic ARP inspection  Yes  Broadcast, unicast, multicast DoS protection  Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes  Broadcast, unicast, multicast DoS protection  Yes	IEEE 802.1x	Yes	
P-based ACLs (IPv4 and IPv6)  MAC-based ACLs  Yes  TCP/UDP-based ACLs  Yes  Control MAC # static entries  48  Port-based security by locked MAC addresses  Dynamic ARP inspection  Yes  Broadcast, unicast, multicast DoS protection  Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes  Broadcast, unicast, multicast DoS protection  Yes  Broadcast, unicast, multicast DoS protection  Yes	RADIUS accounting	Yes	
MAC-based ACLs TCP/UDP-based ACLs Yes Control MAC # static entries 48 Port-based security by locked MAC addresses Dynamic ARP inspection Yes Broadcast, unicast, multicast DoS protection Yes DoS attacks prevention Yes Network storm protection, DoS Yes Broadcast, unicast, multicast DoS protection Yes Proadcast, unicast, multicast DoS protection Yes Proadcast, unicast, multicast DoS protection Yes	Access Control Lists (ACLs)	Yes	
TCP/UDP-based ACLs  Control MAC # static entries  48  Port-based security by locked MAC addresses  Dynamic ARP inspection  Broadcast, unicast, multicast DoS protection  Yes  DoS attacks prevention  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes  Broadcast, unicast, multicast DoS protection  Yes  Provided the static entries  Yes  Yes  Yes  Provided the static entries  Yes	IP-based ACLs (IPv4 and IPv6)	L2 / L3 / L4	
Control MAC # static entries 48  Port-based security by locked MAC addresses Yes  Dynamic ARP inspection Yes  Broadcast, unicast, multicast DoS protection Yes  DoS attacks prevention Yes  Network storm protection, DoS Yes  Broadcast, unicast, multicast DoS protection Yes	MAC-based ACLs	Yes	
Port-based security by locked MAC addresses  Dynamic ARP inspection  Broadcast, unicast, multicast DoS protection  Yes  DoS attacks prevention  Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes  Production  Yes  Production  Yes  Production  Yes  Production  Yes	TCP/UDP-based ACLs	Yes	
Dynamic ARP inspection  Broadcast, unicast, multicast DoS protection  Yes  DoS attacks prevention  Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes  Yes	Control MAC # static entries	48	
Broadcast, unicast, multicast DoS protection  Yes  DoS attacks prevention  Yes  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes	Port-based security by locked MAC addresses	Yes	
DoS attacks prevention  Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes  Yes	Dynamic ARP inspection	Yes	
Network storm protection, DoS  Broadcast, unicast, multicast DoS protection  Yes	Broadcast, unicast, multicast DoS protection	Yes	
Broadcast, unicast, multicast DoS protection Yes	DoS attacks prevention	Yes	
	Network storm protection, DoS	Yes	
DoS attacks prevention Yes	Broadcast, unicast, multicast DoS protection	Yes	
	DoS attacks prevention	Yes	
Quality of Service (QoS)	Quality of Service (QoS)		
Port-based rate limiting Yes ingress and egress	Port-based rate limiting	Yes ingress and egress	
Port-based QoS Yes	Port-based QoS	Yes	
Support for IPv6 fields Yes	Support for IPv6 fields	Yes	
DiffServ QoS Yes ingress	DiffServ QoS	Yes ingress	
IEEE 802.1p COS Yes	IEEE 802.1p COS	Yes	
Destination MAC and IP Yes	Destination MAC and IP	Yes	
Pv4 and v6 DSCP Yes	IPv4 and v6 DSCP	Yes	
TCP/UDP-based Yes	TCP/UDP-based	Yes	
Weighted Round Robin (WRR) Yes	Weighted Round Robin (WRR)	Yes	
Strict priority queue technology Yes	Strict priority queue technology	Yes	



IEEE Network Protocols	SP7500-48PGE4GF-L2M	SP7500-48PGE4GF-L2M-800W	
• IEEE 802.3 ethernet  • IEEE 802.3u 100BASE-T  • IEEE 802.3ab 1000BASE-T  • IEEE 802.3z 1000BASE-SX/LX  • IEEE 802.3af PoE  • IEEE 802.3at PoE+  • IEEE 802.3az Energy Efficient Ethernet (EEE)  • IEEE 802.3ad Trunking (LACP)  • IEEE 802.3x Full-Duplex Flow Control	<ul> <li>IEEE 802.1Q VLAN Tagging</li> <li>IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)</li> <li>IEEE 802.1p Class of Service</li> <li>IEEE 802.1D Spanning Tree (STP)</li> <li>IEEE 802.1s Multiple Spanning Tree (MSTP)</li> <li>IEEE 802.1w Rapid Spanning Tree (RSTP)</li> <li>ITU-TG.8032 Ethernet Ring Protection Switching (ERPS)</li> <li>IEEE 802.1x RADIUS Network Access Control</li> </ul>		
Management, Monitoring & Troubleshooting			
Password management  Admin access control via RADIUS and  TACACS+		Yes Yes	
IPv6 management		Yes	
SNMP v1/v2c/v3		Yes	
RMON group 1,2,3,9	Yes		
Port mirroring	Yes ingress and egress		
Many-to-one port mirroring	Yes		
Cable test utility	Yes		
TLS/HTTPS Web-based access (version)	Yes (v1.2)		
File transfers (uploads, downloads)	TFTP / HTTP		
HTTP upload/download (firmware)	Yes		
Syslog (RFC 3164)	Yes		
USB port for firmware and config upload/ download	Yes		
Per port LEDs	Speed, Link, Activity; or PoE in different mode		
Per device LEDs	Powe	r, system	
Physical Specifications			
Dimensions	440 x 290 x 44.5 mm	(17.32 x 11.42 x 1.75 in)	
Weight	5.1 kg (11.24 lb)	5.3 kg (11.68 lb)	
Power Requirements	AC 100~240V 50/60Hz		
Power Consumption (when all ports used, line-rate traffic and max PoE)	460W	760W	
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	28W	32W	
Iddle power consumption (all ports link-down standby) (Watts)	22W	22W	
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)		



Environmental Specifications	SP7500-48PGE4GF-L2M	SP7500-48PGE4GF-L2M-800W

Operating

-20° to 50°C (-4° to 122°F) **Operating Temperature** 

90% maximum relative humidity (RH), non-condensing Humidity

Altitude 10,000 ft (3,000 m) maximum

Storage

-30° to 70°C (-22° to 158°F) Storage Temperature

Humidity (relative) 95% maximum relative humidity, non-condensing

Altitude 10,000 ft (3,000 m) maximum

**Electromagnetic Emissions and Immunity** 

CE mark, commercial

FCC Part 15 Class A, VCCI Class A

Class A EN 55022 (CISPR 22) Class A

Class A C-Tick

Certifications EN 55024

CCC

47 CFR FCC Part 15, SubpartB, Class A ICES-003: 2016 Issue 6, Class A

ANSI C63.4:2014

IEC 60950-1:2005 (ed.2)+A1:2009+A2:2013 AN/NZS CISPR 22:2009+A1:2010 CLASS A

Safety

CB mark, commercial

CSA certified (CSA 22.2 #950)

EN 60950-1: 2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 IEC 60950-1:2005

Certifications

(ed.2)+A1:2009+A2:2013 AN/NZS 60950.1:2015

CCC (China Compulsory Certificate)

**Warranty and Support** 

Hardware Limited Warranty Limited Lifetime\*

Technical Support via Phone and Email\* Limited Lifetime\*

Limited Lifetime\* 24x7 Online Chat Technical Limited Lifetime\*

Support

**Package Contents** 

Smart PoE Managed Switch

AC Power cord with C13 connector (localized to region of sale)

All models Brackets and screws for rack mounting

Rubber protection caps, which are already installed in the SFP sockets Installation guide

User's manual

### **Shenzhen Benchu Group Technology Limited**

5F,Block5,GuangmingGu Industrial Park,Matian Villiage,

Guangming Disitrict, Shenzhen, China

Tel:+86-755 23246531 Email: sales@benchu-group.com

www.benchu-group.com



SP7500-48PGE4GF-L2M-800W

Benchu group reserves the right to change specifications without prior notice.

All brand names and trademarks are property of their respective owners.

Copyright © 2020 Benchu Technology Corp. All rights reserved.