



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 SP7500-48PGE4TF-L3M and SP7500-48PGE4TF-L3M-800W Gigabit Ethernet Switches with PoE+ and 4 SFP+ Ports join the Benchu group Standalone Smart Switches family, adding full 48 port PoE+ The switch supports modern high-power PoE devices with an impressive PoE power budget of 760W across 48 ports. This makes it an ideal solution for organizations that are planning for long-term infrastructure investment and require future-proofing. By offering a significant PoE power budget, it ensures flexibility, scalability, and sufficient headroom for future network expansion without worrying about power limitations. Support 4 Ports 1G/2.5G/10G SFP+ Uplink, 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 (1.25G/2.5G/10G) SFP/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, RIP, OSPF, 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) for interVLAN local routing
- Layer 3 routing, RIP v1/V2 , OSPF V1/V2 , VRRP
- 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+s, not only providing fiber uplinks, but also uplink redundancy and failover, improving reliability and availability for the network

#### 10G SFP+ High-speed Fiber Uplink

• The swith with four SFP+ uplink ports with 1G/2.5G/10G 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).
- 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	1G/2.5G/10GBASE-X Fiber SFP+ Ports	PoE+ 802.3at Ports	Power Budget	Power Supply	Fans
SP7500-48PGE4TF-L3M- 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

	1							
Model Name	Packet buffer	СРU	ACLs	MAC Ad- dress Table ARP Table VLANs	Fabric	Latency (Max Connection Speed)	Static Routes (IPv4 & IPv6)	Multicast IGMP Group
SP7500-48PGE4TF-L3M- 800W	16MB	Dual-Core 1GHz MIPS InterAptive CPU subsystem 4GB DDR RAM	100 shared	32K MAC 1024 ARP 4K VLANs QinQ	360Gbps 131Mpps line-rate	1G Copper: <3.35μs 10G Fiber: <2.5μs	IPv4: 100 IPv6: 100	512



### 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.
1G/2.5G/10GBASE-X Fiber SFP+ ports	Four dedicated 10G 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	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 desig-nated receivers without the need of an extra multicast router.

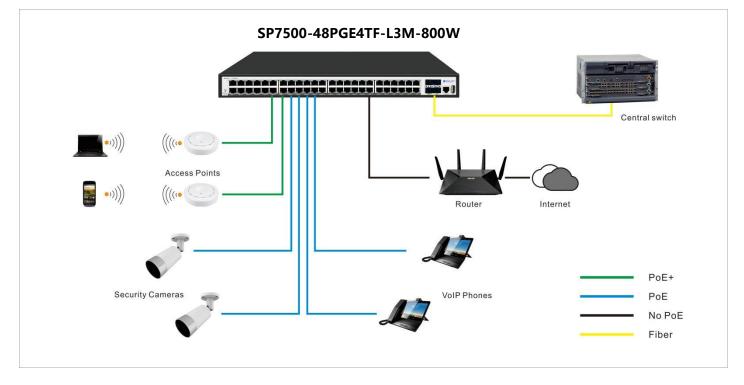


Software Features (continued)				
	Ensure no exchange of unicast, broadcast, or multicast traffic between			
	the protected ports on the switch, thereby improving the security of			
Protected Ports	your converged network. This allows your sensitive phone			
	conversations to stay private and your surveillance 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			
DHCP Snooping and Dynamic ARP Inspection	with a port or MAC address mismatch. Use the DHCP snooping bindings			
Difer Shooping and Dynamic AKP 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			
Dunamic VI AN Assignment (PADILIS)	different VLAN assignment policies. Users are free to move around and			
Dynamic VLAN Assignment (RADIUS)	enjoy the same level of network access regardless of their physical			
	location on the network.			



# **Target Application**

#### Network Convergence



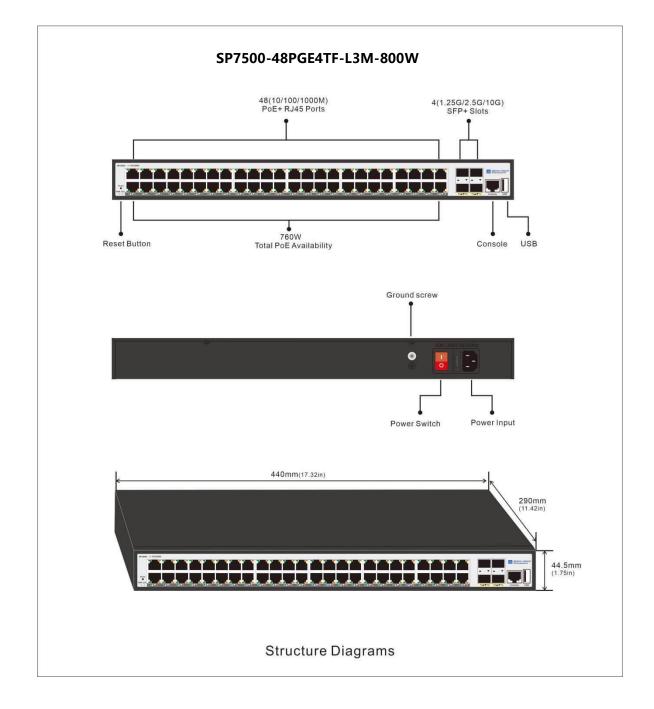
Within small and medium-sized organizations — especially in the hospitality, catering, education, and retail industries — there is growing deployment of VoIP phones, IP security cameras, video-over-IP endpoints, proximity sensors, LED lighting, secure access door locks, and other IoT devices. The dense 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:

- 760W (SP7500-48PGE4TF-L3M-800W) PoE budget across 48 Gigabit PoE+ ports
- 4 dedicated 1G/2.5G/10G 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	SP7500-48PGE4TF-L3M-800W
10M/100M/1G RJ-45 copper ports	48
PoE / PoE+ ports	48 PoE+ (760W PoE budget)
1G/2.5G/10G SFP+ (fiber) ports	4 (dedicated)
Console Port (For config )	Yes
USB port (for config file upload/backup &	Yes
firm-ware updates)	103
Performance Specification	
СРО	Dual-Core 1GHz MIPS InterAptive CPU subsystem
Packet buffer memory (Dynamically shared across only used ports)	16 MB
Forwarding modes	Store-and-forward
Bandwidth	360 Gbps
Priority queues	8
MAC address database size (48-bit MAC ad-dresses)	32К
Multicast groups	1К
Number of IPv4 static routes	100
Number of IPv6 static routes	100
Number of VLANs	4094
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, IP and IPv6 ACLs (ingress)
Packet forwarding rate (64 byte packet size) (Mpps)	131Mbps
Jumbo frame support (bytes)	Up to 12K packet size
Mean Time Between Failures (MTBF) @ 25°C	117,549 hours
100M Copper Latency (64-byte; 1518-byte; 9216-byte frames)	8.314µs; 8.612µs; 8.451µs
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	3.614µs; 3.545µs; 3.628µs
1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	2.980µs; 3.101µs; 3.179µs
10G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	2.330µs; 2.561µs; 2.7129µs



L2 Services - VLANs	SP7500-48PGE4TF-L3M-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
Layer 2 DHCP Relay	Yes
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
VLAN routing	Yes
RIP V1/V2	Yes
OSPF V2	Yes
Number of IP VLAN interfaces(routed VLANs)	15
	15
Policy routing	Yes



# Datasheet | SP7500-48PGE4TF-L3M-800W Gigabit PoE+ Smart Switches with 10G SFP+ Uplink

IEEE 802.3.0.1 LAGS (LACP)YesManual LAGYes# of LAGS / # of members in each LAG8 LAGS with max 8 members in each LAGAtternet Monitoring and Discovery ServicesYes802.1 ab LLDPYes802.1 ab LLDPYesRMON group 1,2,3,9YesNetwork SecurityYesIEEE 802.1 xYesRADIUS accountingYesAccess Control Lists (ACIS)YesIP-based ACLS (IPV4 and IPV6)12 / 13 / 14Chrole ACLS (IPV4 and IPV6)YesControl MAC # static entries48Port-based ACLSYesDynamic ARP inspectionYesBroadcast, unicast, multicast DoS protectionYesDoS attacks preventionYesDoS attacks preventionYesDoS attacks preventionYesPort-based ACISYesDroth Sader Tell ImitingYes ingressBroadcast, unicast, multicast DoS protectionYesDoS attacks preventionYesDoS attacks preventionYesPort-based ACISYesDroth Sader Tell ImitingYes ingressBroadcast, unicast, multicast DoS protectionYesDistaticks preventionYes ingressDistaticks preventionYes ingressDistaticks preventionYes ingressBroadcast, unicast, multicast DoS protectionYes ingressDistaticks preventionYes ingressDistaticks preventionYes ingressDistaticks preventionYes ingressDistaticks prevention <th>Link Aggregation</th> <th>SP7500-48PGE4TF-L3M-800W</th>	Link Aggregation	SP7500-48PGE4TF-L3M-800W
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SMPvl, v2c, v3RMON group 1,2,3,9YesNetwork SecurityYesIEEE 802.1xYesRADIUS accountingYesAccess Control Lists (ACLs)YesIP-based ACLs (IPv4 and IPv6)12 / L3 / L4MAC-based ACLsYesTCP/UDP-based ACLsYesControl MAC # static entries48Port-based security by locked MAC addressesYesDynamic ARP inspectionYesDoS atcks preventionYesNetwork storm protection, DoSYesBroadcast, unicast, multicast DoS protectionYesDoS atcks preventionYesDoS atcks preventionYesPort-based ACLYesPort-based ActsYesBroadcast, unicast, multicast DoS protectionYesBroadcast, unicast, multicast DoS protectionYesDoS atcks preventionYesDoS atcks preventionYesPort-based ActYesSupport for IPv6 fieldsYesDiffserv QoSYesIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and vé DSCPYesTCP/UDP-basedYesTCP/UDP-basedYes	Network Monitoring and Discovery Services	
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Broadcast, uniticast DoS protection       Yes         DoS attacks prevention       Yes         Network storm protection, DoS       Yes         Broadcast, unicast, multicast DoS protection       Yes         DoS attacks prevention       Yes         DoS attacks prevention       Yes         DoS attacks prevention       Yes         DoT-based rate limiting       Yes ingress and egress         Port-based QoS       Yes         Support for IPv6 fields       Yes         IEEE 802.1p COS       Yes         Destination MAC and IP       Yes         IPv4 and v6 DSCP       Yes         ICP/UDP-based       Yes	Port-based security by locked MAC addresses	Yes
DoS attacks preventionYesNetwork storm protection, DoSYesBroadcast, unicast, multicast DoS protectionYesDoS attacks preventionYesDoS attacks preventionYes ingress and egressPort-based rate limitingYes ingress and egressPort-based QoSYesSupport for IPv6 fieldsYesDiffServ QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and v6 DSCPYesICU/UDP-basedYesICU/UCU/UCU/UCU/UCU/UCU/UC	Dynamic ARP inspection	Yes
Network storm protection, DoSYesBroadcast, unicast, multicast DoS protectionYesDoS attacks preventionYes <b>Quality of Service (QoS)</b> Yes ingress and egressPort-based rate limitingYes ingress and egressPort-based QoSYesSupport for IPv6 fieldsYesDiffServ QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and v6 DSCPYesTCP/UDP-basedYes <td< td=""><td>Broadcast, unicast, multicast DoS protection</td><td>Yes</td></td<>	Broadcast, unicast, multicast DoS protection	Yes
Broadcast, unicast, multicast DoS protectionYesDoS attacks preventionYesQuality of Service (QoS)Yes ingress and egressPort-based rate limitingYes ingress and egressPort-based QoSYesSupport for IPv6 fieldsYesDiffServ QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and v6 DSCPYesTCP/UDP-basedYes <td>DoS attacks prevention</td> <td>Yes</td>	DoS attacks prevention	Yes
DoS attacks prevention       Yes         Quality of Service (QoS)       Yes ingress and egress         Port-based rate limiting       Yes ingress and egress         Port-based QoS       Yes         Support for IPv6 fields       Yes         DiffServ QoS       Yes ingress         IEEE 802.1p COS       Yes         IPv4 and v6 DSCP       Yes         ICP/UDP-based       Yes	Network storm protection, DoS	Yes
Quality of Service (QoS)Port-based rate limitingYes ingress and egressPort-based QoSYesSupport for IPv6 fieldsYesDiffServ QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and v6 DSCPYesTCP/UDP-basedYes	Broadcast, unicast, multicast DoS protection	Yes
Port-based rate limitingYes ingress and egressPort-based QoSYesSupport for IPv6 fieldsYesDiffServ QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and v6 DSCPYesTCP/UDP-basedYes	DoS attacks prevention	Yes
Port-based QoSYesSupport for IPv6 fieldsYesDiffServ QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and v6 DSCPYesTCP/UDP-basedYes	Quality of Service (QoS)	
Support for IPv6 fieldsYesDiffServ QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and v6 DSCPYesTCP/UDP-basedYes	Port-based rate limiting	Yes ingress and egress
DiffServ QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesIPv4 and v6 DSCPYesTCP/UDP-basedYes	Port-based QoS	Yes
IEEE 802.1p COS     Yes       Destination MAC and IP     Yes       IPv4 and v6 DSCP     Yes       TCP/UDP-based     Yes	Support for IPv6 fields	Yes
Destination MAC and IPYesIPv4 and v6 DSCPYesTCP/UDP-basedYes	DiffServ QoS	Yes ingress
IPv4 and v6 DSCP     Yes       TCP/UDP-based     Yes	IEEE 802.1p COS	Yes
TCP/UDP-based Yes	Destination MAC and IP	Yes
	IPv4 and v6 DSCP	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	SP7500-48PGE4TF-L3M-800W	
• IEEE 802.3 Ethernet	• IEEE 802.3ad Trunking (LACP)	
• IEEE 802.3u 100BASE-T	IEEE 802.3x Full-Duplex Flow Control	
• IEEE 802.3ab 1000BASE-T	• IEEE 802.1Q VLAN Tagging	
• IEEE 802.3z 1000BASE-SX/LX	• IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED)	
• IEEE 802.3bz 2.5G BASE-X	IEEE 802.1p Class of Service	
• IEEE 802.3ae 10G BASE-X	• IEEE 802.1D Spanning Tree (STP)	
• IEEE 802.3af PoE	IEEE 802.1s Multiple Spanning Tree (MSTP)	
• IEEE 802.3at PoE+	• IEEE 802.1w Rapid Spanning Tree (RSTP)	
IEEE 802.3az Energy Efficient Ethernet (EEE)	IEEE 802.1x RADIUS Network Access Control	
Management, Monitoring & Troubleshooting		
Password management	Yes	
Admin access control via RADIUS and TACACS+	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	52	
Cable test utility	Yes	
TLS/HTTPS Web-based access (version)	Yes (v1.2)	
File transfers (uploads, downloads)	ТЕТР / НТТР	
HTTP upload/download (firmware)	Yes	
Syslog (RFC 3164)	Yes	
USB port for firmware and config upload/ download	Yes	
LEDs	Yes	
Per port	Speed, Link, Activity; or PoE in different mode	
Per device	Power, system	
Physical Specifications	Yes	
Dimensions	440 x 290 x 44.5 mm (17.32 x 11.42 x 1.75 in)	
Weight	5.03 kg (11.08 lb)	
Power Consumption (when all ports used, line-rate traffic and max PoE)	760W	
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	22W	
Iddle power consumption (all ports link-down standby) (Watts)	15W	
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)	
Fan	2	



#### Datasheet | SP7500-48PGE4TF-L3M-800W Gigabit PoE+ Smart Switches with 10G SFP+ Uplink

Environmental Specifications	SP7500-48PGE4TF-L3M-800W		
Operating			
Operating Temperature	-20° to 50°C (-4° to 122°F)		
Humidity	90% maximum relative humidity (RH), non-condensing		
Altitude	10,000 ft (3,000 m) maximum		
Storage			
Storage Temperature	−30° to 70°C (− 22° to 158°F)		
Humidity (relative)	95% maximum relative humidity, non-condensing		
Altitude	10,000 ft (3,000 m) maximum		
Electromagnetic Emissions and Immunity	10,000 ft (3,000 ft) flaxifium		
	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)		
Certifications	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		

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SP7500-48PGE4TF-L3M-800W

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