



All ports PoE+ with up to 280W/380W 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 SP7500-16PGE4GC-L2M Gigabit Ethernet Switches with PoE+ and 4 SFP Ports join the Benchu group Standalone Smart Switches family, adding full 16 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 280W over 16-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 380W

Support 4 Ports 1Gb SFP Uplink, provides greater bandwidth and powerful processing capacity. It offers a maximum 4Gbps uplink bandwidth through the Four 1Gbps SFP ports. In addition, the administrator can flexibly choose the suitable (1.25G) SFP transceiver according to the transmission distance required to extend the network efficiently.

Highlights

The Benchu group SP7500-16PGE4GC-L2M PoE+ Gigabit Smart Switches with Remote Management provides a great value, with configurable L2 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, ERPS,DHCP,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)
- 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
- 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, 8K 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 SFPs, not only providing fiber uplinks, but also uplink redundancy and failover, improving reliability and availability for the network

Fast Access

• The remote units provide the full line-speed forwarding capability. All ports support non-blocking data packet forwarding, providing users with high-speed access experience and meeting the requirements of high-bandwidth services such as HD video conferencing, online video, and large file download.

Powerful Network Security

• The SP7500 Series offers comprehensive Layer 2 to Layer 4 Access Control List (ACL) for enforcing security to the edge. It can be used to restrict network access by denying packets based on source and destination IP address, TCP/UDP ports or defined typical network applications. Its protection mechanism also comprises 802.1X Port-based and MAC-based user and device authentication.

BENCHU Quality and Reliability

- Low power consumption, fanless, high-strength metal casing.
- 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/V2V3).
- 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	1GBASE-X Fiber SFP Ports	PoE+ 802.3at Ports (Budget)	Power Supply	Fans
SP7500-16PGE4GC-L2M	20	4	16 PoE+ (280W)	1 internal PSU, fixed	2
SP7500-16PGE4GC-400W-L2M	20	4	16 PoE+ (380W)	1 internal PSU, fixed	2

Software at a Glance

LAYER 2+ / LAYER 3 LITE 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
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-base d	LLDP-MED, RADIUS, 802.1X	Yes

Performance at a Glance

Model Name	Packet	CPU	ACLs	MAC Ad- dress Table	Fabric	Latency (Max	Static Routes	Multicast IGMP
	buffer			ARP Table VLANs		Connection Speed)	(IPv4 & IPv6)	Group
SP7500-16PGE4GC-L2M		Dual-Core 512GHz MIPS InterAptive CPU	100	8K MAC 512 ARP	128Gbps	1G Copper: <3.35µs	IPv4: 100	
SP7500-16PGE4GC-400W -L2M	12MB	subsystem 1GB DDR RAM	shared	4K VLANs QinQ	76Mpps line-rate	1G Fiber: <2.5μs	IPv6: 100	512

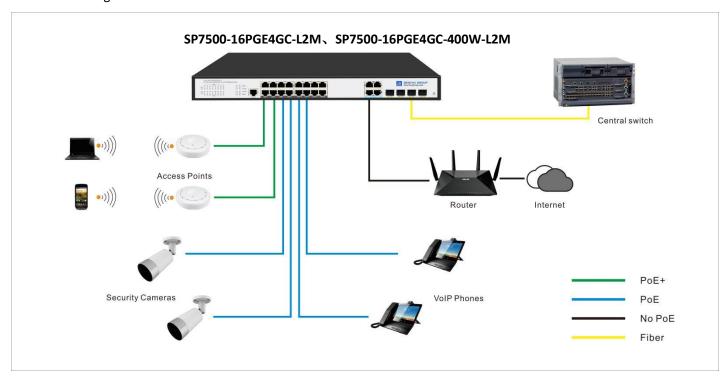
Features and Benefits

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.		
1GBASE-X Fiber SFP ports	Four dedicated 1Gb 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	280W/380W PoE budget available across 16 Gigabit PoE+ ports (802.3af/at) – 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.		



Target Application

Network Convergence



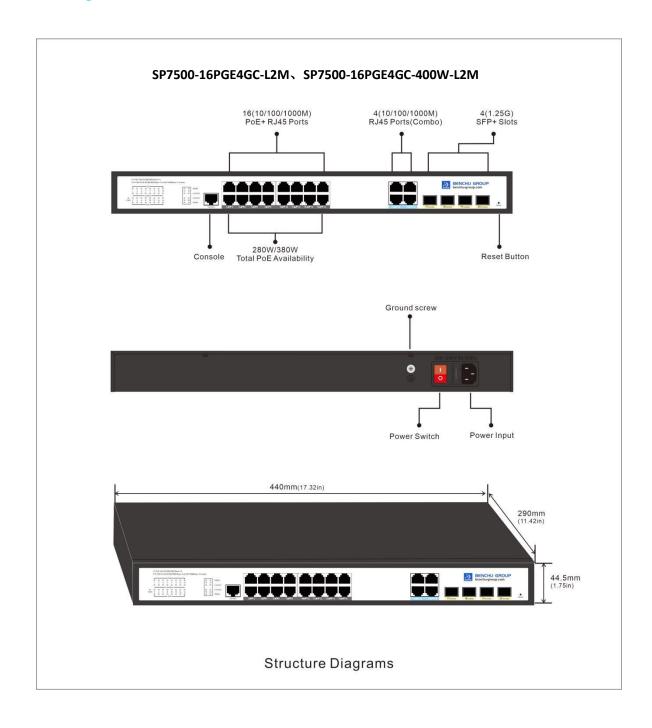
Within small and medium-sized organizations — especially in the hospitality, catering, education, and retail industries — there is growing deployment of VoIP phones, IP security cameras, video-over-IP endpoints, proximity sensors, LED lighting, secure access door locks, and other IoT devices. The dense 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 16-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:

- 280W (SP7500-16PGE4GC-L2M) PoE budget across 16 Gigabit PoE+ ports
- 380W (SP7500-16PGE4GC-400W-L2M) PoE budget across 16 Gigabit PoE+ ports
- 4 dedicated 1.25G SFP fiber ports or RJ45 for aggregation to the network core
- Layer 3 static routing (IPv4 and IPv6) for interVLAN local 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	SP7500-16PGE4GC-L2M	SP7500-16PGE4GC-400W-L2M	
10M/100M/1000M RJ-45 copper ports	16		
PoE / PoE+ ports	16 (280W PoE budget)	16 (380W PoE budget)	
1.25G SFP (fiber) ports uplink	4		
1000M RJ-45 copper ports uplink	4 (Combo)		
Console Port (For config)	Yes		
Performance Specification			
CPU	Dual-Core 512GHz MIPS InterAptive CPU subsystem		
Packet buffer memory (Dynamically shared across only used ports)	8Mb		
Forwarding modes	Store-and-1	forward	
Bandwidth	128 Gb	ops	
Priority queues	8		
MAC address database size (48-bit MAC ad-dresses)	16K		
Multicast groups	512K		
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	512 ARP		
Number of DHCP snooping bindings	256		
Access Control Lists (ACLs)	100 shared for MAC, IP a	nd IPv6 ACLs (ingress)	
Packet forwarding rate (64 byte packet size) (Mpps)	35.72Mpps		
Jumbo frame support (bytes)	Up to 9K pa	cket size	
Mean Time Between Failures (MTBF) @ 25°C	135,226	hours	
100M Copper Latency (64-byte; 1518-byte; 9216-byte frames)	8.321μs; 8.403μs; 8.449μs		
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	3.506µs; 3.541µs; 3.615µs		
1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	2.978μs; 3.118	μs; 3.176μs	



L2 Services - VLANs	SP7500-16PGE4GC-L2M SP7500-16PGE4GC-400W-L2M
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	100
IPv6 static routing	100



Link Aggregation	SP7500-16PGE4GC-L2M	SP7500-16PGE4GC-400W-L2M	
IEEE 802.3ad - LAGs (LACP)	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			
802.1ab 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		
TCP/UDP-based ACLs	Yes		
Control MAC # static entries	48		
Port-based security by locked MAC addresses	Yes		
Dynamic ARP inspection	Yes		
Quality of Service (QoS)			
Port-based rate limiting	Yes ingress and o	egress	
Port-based QoS	Yes		
Support for IPv6 fields	Yes		
DiffServ QoS	Yes ingress		
IEEE 802.1p COS	Yes		
Destination MAC and IP	Yes		
Weighted Round Robin (WRR)	Yes		
Strict priority queue technology	Yes		
Rata limit	Yes		



FIEEE 802.3 t	IEEE Network Protocols	SP7500-16PGE4GC-L2M	SP7500-16PGE4GC-400W-L2M		
Password management Admin access control via RADIUS and TACACS+ 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 20 Cable test utility Yes TLS/HTTPS Web-based access (version) Yes (v1.2) File transfers (uploads, downloads) TFTP / HTTP HTTP upload/download (firmware) Yes LEDs Yes Per port Speed, Link, Activity, or PoE in different mode Per device Power, system Physical Specifications Dimensions 440 x 290 x 44.5 mm (17.32 x 11.42 x 1.75 in) Weight 3.9 kg (8.6 lb) 4.3 kg (9.48 lb) Power Requirements AC 100°240V SoffoHz Power Consumption (when all ports used, line-rate traffic and max PDE) Max power (worst case, all ports used, full Poet, line-rate traffic) (Watts) Energy Efficient Ethernet (EEE) IEEE 802.3az Yes (deactivated by default)	 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 802.1Q VLAN Tagging IEEE 802.1AB LLDP with ANSI/TIA-1057 (LLDP-MED) IEEE 802.1p Class of Service IEEE 802.1D Spanning Tree (STP) IEEE 802.1s Multiple Spanning Tree (MSTP) IEEE 802.1w Rapid Spanning Tree (RSTP) ITU-TG.8032 Ethernet Ring Protection Switching (ERPS) 			
Admin access control via RADIUS and TACACS+ 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 20 Cable test utility Yes TLS/HTTPS Web-based access (version) Yes (v1.2) File transfers (uploads, downloads) TFTP / HTTP HTTP upload/download (firmware) Yes LEDs Yes Yes Per port Speed, Link, Activity; or PoE in different mode Per device Power, system Physical Specifications Dimensions 440 x 290 x 44.5 mm (17.32 x 11.42 x 1.75 in) Weight 3.9 kg (8.6 lb) 4.3 kg (9.48 lb) Power Requirements AC 100°240 x 50/60Hz Power Consumption (when all ports used, full near tarffic) (Watts) Energy Efficient Ethernet (EEE) (EEE 802.3az Yes (deactivated by default)			Voc		
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Port mirroring Yes ingress and egress Many-to-one port mirroring 20 Cable test utility Yes TLS/HTTPS Web-based access (version) Yes (v1.2) File transfers (uploads, downloads) TFTP / HTTP HTTP upload/download (firmware) Yes LEDs Yes Per port Speed, Link, Activity; or PoE in different mode Per device Power, system Physical Specifications Dimensions 440 x 290 x 44.5 mm (17.32 x 11.42 x 1.75 in) Weight 3.9 kg (8.6 lb) 4.3 kg (9.48 lb) Power Requirements AC 100°240V 50/60Hz Power Consumption (when all ports used, line-rate traffic and max POE) Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts) Iddle power consumption (all ports line-rate traffic) (Watts) Energy Efficient Ethernet (EEE) IEEE 802.3az Yes (deactivated by default)	SNMP v1/v2c/v3		Yes		
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Per port Per device Power, system Physical Specifications Dimensions A440 x 290 x 44.5 mm (17.32 x 11.42 x 1.75 in) Weight 3.9 kg (8.6 lb) 4.3 kg (9.48 lb) Power Requirements AC 100~240V 50/60Hz Power Consumption (when all ports used, line-rate traffic and max PoE) Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts) Iddle power consumption (all ports line-rate traffic) (Watts) Energy Efficient Ethernet (EEE) IEEE 802.3az Speed, Link, Activity; or PoE in different mode Power, Speed, Link, Activity; or PoE in different mode Power, system 1.40 x 290 x 44.5 mm (17.32 x 11.42 x 1.75 in) 4.3 kg (9.48 lb) 4.3 kg (9.48 lb) 4.0 W 400W 400W 20W 20W PoE, line-rate traffic (Watts) Ink-down standby) (Watts) Finergy Efficient Ethernet (EEE) IEEE 802.3az	HTTP upload/download (firmware)	Yes			
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Weight 3.9 kg (8.6 lb) 4.3 kg (9.48 lb) Power Requirements AC 100~240V 50/60Hz Power Consumption (when all ports used, line-rate traffic and max PoE) 300W 400W Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts) 17W 20W Iddle power consumption (all ports link-down standby) (Watts) Energy Efficient Ethernet (EEE) IEEE 802.3az Yes (deactivated by default)	Physical Specifications				
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PoE, line-rate traffic) (Watts) Iddle power consumption (all ports link-down standby) (Watts) Energy Efficient Ethernet (EEE) IEEE 802.3az 17W 20W 15W 15W		300W	400W		
link-down standby) (Watts) Energy Efficient Ethernet (EEE) IEEE 802.3az Yes (deactivated by default)	•	17W	20W		
	, , , ,		15W		
Fan 2 Fans	Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)			
	Fan	2 Fans			



Environmental Specifications	SP7500-16PGE4GC-L2M	SP7500-16PGE4GC-400W-L2M
Operating		
Operating Temperature	-20° to 50°C	C (-4° to 122°F)

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

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

Storage

-20° to 70°C (-4° 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)

Limited Lifetime*

Warranty and Support

Technical Support via Phone and Email*

Hardware Limited Warranty 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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SP7500-16PGE4GC-L2M SP7500-6PGE4GC-400W-L2M

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