



All ports PoE+ with up to 470W 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 SP7500-24PGE4GC-L2M Gigabit Ethernet Switches with PoE+ and 4 SFP Ports join the Benchu group Standalone Smart Switches family, adding full 24 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 370W over 24-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 470W Support 4 Ports 1G 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 SP7500-24PGE4GC-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	Power Budget	Power Supply	Fans
SP7500-24PGE4GC-L2M	28	4	24 PoE+	400W	1 internal PSU, fixed	2 internal fans
SP7500-24PGE4GC-L2M-500W	28	4	24 PoE+	500W	1 internal PSU, fixed	2 internal fans

Software at a Glance

LAYER 2+ / LAYER 3 LITE FEATU	RES						
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, and Private VLAN	LLDP-MED, RADIUS, 802.1X	Yes

Performance at a Glance

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
SP7500-24PGE4GC-L2M		Dual-Core 512GHz MIPS InterAptive CPU	100	8K MAC 512 ARP	64Gbps	1G Copper: <3.35µs	IPv4: 32	
SP7500-24PGE4GC-L2M -500W	12MB	subsystem 1GB DDR RAM	shared	4K VLANs QinQ	48Mpps line-rate	1G Fiber: <2.5μs	IPv6: 32	512



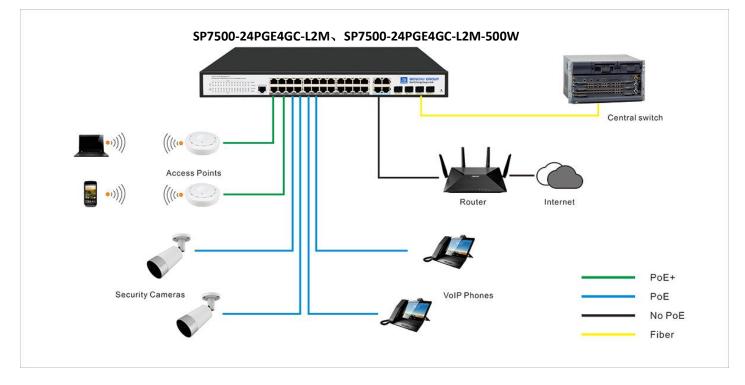
Features and Benefits

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 PoI ports.	
1GBASE-X Fiber SFP ports	Four dedicated 1G SFP ports for aggregation to the network core Support for Fiber and Copper modules. Can also build dual redundance 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	380W/480W PoE budget available across 24 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



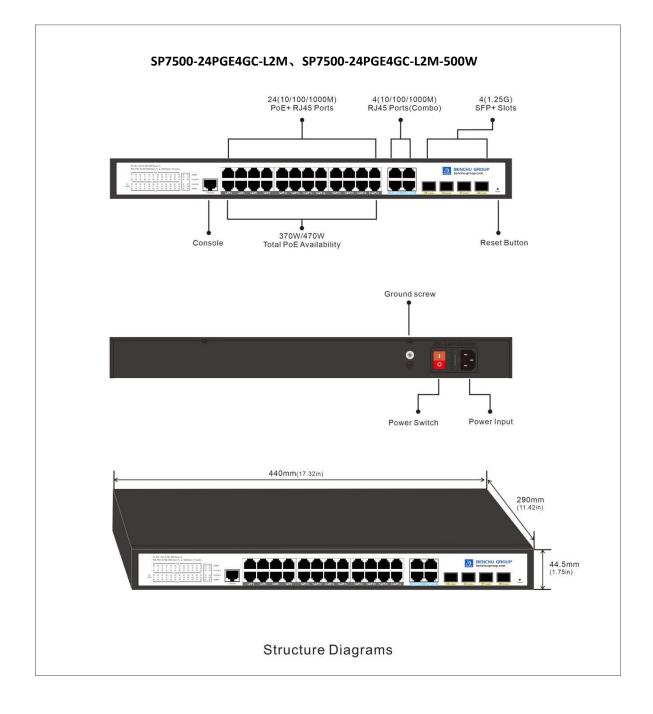
Within small and medium-sized organizations — especially in the hospitality, catering, education, and retail industries — there is growing deployment of VoIP phones, IP security cameras, video-over-IP endpoints, proximity sensors, LED lighting, secure access door locks, and other IoT devices. The dense 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 24-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:

- 370W (SP7500-24PGE4GC-L2M) PoE budget across 24 Gigabit PoE+ ports
- 470W (SP7500-24PGE4GC-L2M-500W) PoE budget across 24 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	SP7500-24PGE4GC-L2M SP7500-24PGE4GC-L2M-500W		
10M/100M/1000M RJ-45 copper ports	24		
PoE / PoE+ ports	24 (370W PoE budget) 24 (470W 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)	12MB		
Forwarding modes	Store-and-forward		
Bandwidth	128 Gbps		
Priority queues	8		
MAC address database size (48-bit MAC ad-dresses)	16K		
Multicast groups	512K		
Number of IPv4 static routes	32		
Number of IPv6 static routes	32		
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 and IPv6 ACLs (ingress)		
Packet forwarding rate (64 byte packet size) (Mpps)	47.62Mpps		
Jumbo frame support (bytes)	Up to 9K packet size		
Mean Time Between Failures (MTBF) @ 25°C	135,432 hours		
100M Copper Latency (64-byte; 1518-byte; 9216-byte frames)	8.321µs; 8.401µs; 8.449µs		
1G Copper Latency (64-byte; 1518-byte; 9216-byte frames)	3.432µs; 3.521µs; 3.625µs		
1G Fiber Latency (64-byte; 1518-byte; 9216-byte frames)	2.975µs; 3.111µs; 3.186µs		



L2 Services - VLANs	SP7500-24PGE4GC-L2M	SP7500-24PGE4GC-L2M-500W
IEEE 802.1Q VLAN tagging	Ye	s
QinQ VLAN tagging	Ye	s
IP-based VLANs	Ye	S
MAC-based VLANs	Ye	s
Protocol-based VLAN	Ye	S
Voice VLAN	Ye	S
VLAN mapping	Ye	S
L2 Services - Availability		
Broadcast, multicast, unknown unicast storm control	Ye	S
IEEE 802.3ad - LAGs (LACP)	Ye	S
IEEE 802.3x (full duplex and flow control)	Ye	S
IEEE 802.1D Spanning Tree Protocol	Ye	s
IEEE 802.1w Rapid Spanning Tree Protocol	Ye	s
IEEE 802.1s Multiple Spanning Tree Protocol	Ye	S
Layer 2 DHCP Relay	Ye	s
L2 Services - Multicast Filtering		
IGMP snooping (v1, v2 and v3)	Ye	s
MLD snooping support (v1 and v2)	Ye	s
IGMP snooping querier (v2)	Ye	S
MLD snooping querier (v1)	Ye	S
Multicast VLAN Registration (MVR)	Ye	s
L3 Services - DHCP		
DHCP client	Ye	s
DHCP snooping	Ye	S
DHCP server	Ye	S
L3 Services - Routing		
IPv4 static routing	32	2
IPv6 static routing	32	2



SMPv1, v2c, v3RMON group 1,2,3,9YesNetwork SecurityYesIEEE 802.1xYesRADIUS accountingYesAccess Control Lists (ACLs)YesIP-based ACLs (IPv4 and IPv6)12/13/14MAC-based ACLsYesTCP/UDP-based ACLsYesControl MAC # static entries48Port-based security by locked MAC addressesYesDynamic ARP inspectionYesPort-based QoSYesSupport for IPv6 fieldsYesDiffserv QoSYes ingress and egressDiffserv QoSYes ingressIEEE 802.1p COSYesDestination MAC and IPYesWeighted Round Robin (WRR)Yes	Link Aggrogation		
Manual LAGYes# of LAGs /# of members in each LAG8 LAGs with max 8 members in each LAGNetwork Monitoring and Discovery ServicesYes802.1ab LLDPYesSNMPvi, v2c, v3RMON group 1,2,3,9YesNetwork SecurityYesIEEE 802.1xYesRADIUS accountingYesAccess Control Lists (ACLs)YesIP-based ACLs (IPv4 and IPv6)L2 / L3 / L4Chorp Lags (ACLs)YesControl MAC # static entries48Port-based ACLsYesOutput LARP inspectionYesPort-based ACLsYesPort-based ACLSYesControl MAC # static entries48Port-based ACLSYesDynamic ARP inspectionYes ingress and egressPort-based ACSYesSupport for IPv6 fieldsYes ingressDifferv QoSYes ingressSupport for IPv6 fieldsYes ingressDifferv QoSYes ingressUEE 802.1 p COSYesDestination MAC and IPYesWeighted Round Robin (WRR)YesWeighted Round Robin (WRR)Yes<			
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Strict priority queue technology Yes	Destination MAC and IP	Yes	
	Weighted Round Robin (WRR)	Yes	
Rata limit Yes	Strict priority queue technology	Yes	
	Rata limit	Yes	



IEEE Network Protocols	SP7500-24PGE4GC-L2M	SP7500-24PGE4GC-L2M-500W	
• IEEE 802.3 Ethernet	IEEE 802.3x Full-Duplex Flow Control		
• IEEE 802.3u 100BASE-T	IEEE 802.1Q VLAN Tagging		
• IEEE 802.3ab 1000BASE-T	• IEEE 802.1AB LLDP with ANSI/TIA-1057 (I	LLDP-MED)	
• IEEE 802.3af PoE	IEEE 802.1p Class of Service		
• IEEE 802.3at PoE+	• IEEE 802.1D Spanning Tree (STP)		
• IEEE 802.3az Energy Efficient Ethernet (EEE)	• IEEE 802.1s Multiple Spanning Tree (MST	Р)	
• IEEE 802.3ad Trunking (LACP)	• IEEE 802.1w Rapid Spanning Tree (RSTP)		
• IEEE 802.3z Gigabit Ethernet 1000BASE-SX/LX	IEEE 802.1x RADIUS Network Access Con	trol	
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 a	nd egress	
Many-to-one port mirroring	24		
Cable test utility	Yes		
TLS/HTTPS Web-based access (version)	Yes (v1.2)		
File transfers (uploads, downloads)	ТЕТР / НТТР		
HTTP upload/download (firmware)	Yes		
LEDs	Yes		
Per port	Speed, Link, Activity; or F	PoE in different mode	
Per device	Power, sy	stem	
Physical Specifications			
Dimensions	440 x 290 x 44.5 mm (17	.32 x 11.42 x 1.75 in)	
Weight	4.35 kg (9.59 lb)	4.8 kg (10.58 lb)	
Power Consumption (when all ports used, line-rate traffic and max PoE)	400W 500W		
Max power (worst case, all ports used, full PoE, line-rate traffic) (Watts)	19W 22W		
Iddle power consumption (all ports link-down standby) (Watts)	15W 15W		
Energy Efficient Ethernet (EEE) IEEE 802.3az	Yes (deactivated by default)		
Fan	2 internal fans, fixed		



Environmental Specifications	SP7500-24PGE4GC-L2M	SP7500-24PGE4GC-L2M-500W		
Operating				
Operating Temperature	-20° to 50°C (-4° to 122°F)			
Humidity	90% maximum relative hun	nidity (RH), non-condensing		
Altitude	10,000 ft (3,00	0 m) maximum		
Storage				
Storage Temperature	–20° to 70°C ((– 4° to 158°F)		
Humidity (relative)	95% maximum relative h	umidity, non-condensing		
Altitude		0 m) maximum		
Electromagnetic Emissions and Immunity	, , , , , , , , , , , , , , , , , , , ,			
	CE mark. c	ommercial		
		s A, VCCI Class A		
		(CISPR 22) Class A		
	Class A	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		
	(ed.2)+A1:20	009+A2:2013		
		950.1:2015		
	CCC (China Comp	ulsory Certificate)		
Warranty and Support				
Hardware Limited Warranty	Limited I	Lifetime*		
Technical Support via Phone and Email*	Limited I	Lifetime*		
Limited Lifetime* 24x7 Online Chat Technical Support	Limited Lifetime*			
Package Contents				
	Smart Switch			
All models	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

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SP7500-24PGE4GC-L2M SP7500-24PGE4GC-L2M-500W

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