

# PSG-5124+

## 24-Port L2 Managed Gigabit PoE Switch (330W)



### Description

The PSG-5124+ is an L2 Managed Gigabit PoE+ switch. Provide a range of physical interface types, multiple easy-to-deploy management interfaces, and advanced Layer 2 features (which is working on Layer 2 of OSI model). PSG-5124+ helps provide a cost-efficient and flexible solution for building and expanding business networks. These switches can be deployed at the Enterprise's access level and in converged networks.

The PSG-5124+ support 24 10/100/1000BASE-T ports with PoE+ (802.3af/at). In addition, PSG-5124+ support two gigabit SFP ports for optical connections using multi-mode or single-mode SFP transceivers.

The PSG-5124+ provide high performance, powerful L2 and L2+ features like enterprise-level QoS, advanced security protection and IP-MAC Access Control List (ACL) functions protect against broadcast storm, ARP and IGMP Snooping, etc. An enterprise-level Quality of Services provides enhanced traffic management capabilities to move your data smoother and faster. Moreover, the easy to use web GUI interfaces and CLI, SNMP, SSH provide faster and easy setup and configuration with less downtime. PSG-5124+ provide a reliable, scalable, secure solution for small medium and campus, ISP networks.

The PSG-5124+'s important management commands, such as downloading firmware or a configuration file, offer a sophisticated method of batch operations for multiple switches.

### Features Highlight

#### Advanced Features

The PSG-5124+ comes equipped with a complete L2 features, including MAC Address administration, Loop Detection, Spanning Tree Protocol (STP) IGMP snooping (IGMP v1/v2/v3), port mirroring with one-to-one and Many-to-one capabilities, IEEE 802.3ad Link Aggregation Control Protocol (LACP). The IEEE 802.3x Flow Control function allows servers to directly connect to the switch for fast, reliable data transfers.

Network maintenance and Troubleshooting features include loopback detection significantly speeds up troubleshooting by automatically detecting and shutting down switching loops. The fiber port transceiver information feature, designed primarily for administrators, determines the fiber transceiver connection status, quality and quickly discovers errors.

The PSG-5124+ supports a large integration of Powered Devices such as Wireless AP, IP Cameras or VoIP Phones within a friendly enterprise budget and be designed for satisfying customer needs. The switch is complied with L2 features supporting smart PoE+ (IEEE 802.3af/at) to fulfill the demands of transmitting voice, video, data and power over a single network cable and stands for a total PoE power budget 330W.

#### Connectivity

- **Support Auto-MDI/MDIX**  
Adjusts automatically to straight-through or crossover on all 10/100/1000 ports.
- **Packet storm protection (Storm Control)**  
Protects against broadcast, multicast, or unknown unicast (DLF) storms with user-defined thresholds.
- **IEEE 802.3x flow control**  
Provides a mechanics allowing the receiving party of a connection to control the rate of the sending party. As a result of this, the throughput of data streams destined to slow clients increases because packets are no longer discarded but the throughput of streams destined to fast clients is reduced considerably.
- **Jumbo frame supports up to 10 kilobytes frames**  
Enabling jumbo frames can improve network performance by making data transmissions more efficient. The CPUs on switches and routers can only process one frame at a time. By putting a larger payload into each frame, the CPUs have fewer frames to process. In return, this can reduce the amount of heat the network devices generate.
- **Port Mirroring**  
Port Mirroring, is a method of monitoring network traffic. With port mirroring enabled, the switch sends a copy of all network packets seen on one port (or an entire VLAN) to another port, where the packet can be analyzed.

## Specifications

### Standards

IEEE 802.3	10Base-T (Ethernet)
IEEE 802.3u	100Base-TX (Fast Ethernet)
IEEE 802.3ab	1000Base-T (Gigabit Ethernet)
IEEE 802.3z	1000Base-X (SX/LX)
IEEE 802.3x	Flow Control
IEEE 802.3af/at	PoE/PoE+
IEEE 802.3ad	Link Aggregation (LACP)
IEEE 802.3az	Energy-Efficient Ethernet
IEEE 802.1Q	VLAN tagging
IEEE 802.1d	Spanning Tree Protocol (STP)
IEEE 802.1w	Rapid Spanning Tree Protocol (RSTP)
IEEE 802.1s	Multiple Spanning Tree Protocol (MSTP)
IEEE 802.1p	QoS
IEEE 802.1x	Port-based authentication
IEEE 802.1ab	LLDP

### Interface

Ports	24 x 10/100/1000BASE-T, RJ45 2 x Gigabit SFP port 1 x Console Port
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### Features

Performance	Switch Capacity: 52Gbps Forwarding Rate: 38.69Mpps Flash Memory: 32MB SDRAM: 128MB Packet Buffer Memory: 4.1Mbits Jumbo Frame: 10KBytes Mac Address Table: 8K Store and Forward
Connectivity	Auto-negotiation, Auto MDI/MDI-X, Storm Control, Flow Control, Port Speed Limit (Rate Limit)
VLAN	4094 VLAN IDs available, 256 Active VLAN, Port-based VLAN, MAC-based VLAN, ACCESS VLAN, TRUNK VLAN, 802.1Q tagged VLAN
Internet Protocol	IPv4, IPv6
IGMP/MLD Snooping	IGMP v1/v2/v3 Snooping MLD Snooping for IPv6
MAC Management	MAC address display/inquire, Static MAC settings, MAC address search (Static, Dynamic, Port, MAC)
Loopback Detection	Provides support to enable loop detection
Spanning Tree Protocol	STP, RSTP, MSTP BPDU Filtering, BPDU Guard, Root Guard, Port Priority
Storm Control	Broadcast/Unknown Unicast/Multicast
Link Aggregation	Maximum 8 ports per group Provides up to 8 groups LACP with dynamic or static
Access Control List	Source MAC Address, Destination MAC Address, Source IP, Destination IP, Source Application, Destination Application, Source Interface, Ethernet Type, VLAN
PoE/PoE+	PoE Scheduling, PD Alive Check, PoE Power on/off, PoE Priority, Power budget control per system, Power budget control per port, Power delay
QoS	802.1p Priority, DSCP, Priority Queue Schedule Mode, SPQ, WRR, WFQ, Priority/Queue Mapping Support 8 Queues

### Features

Port Mirroring	One-to-one Many-to-one Mirroring port transmission, receiving and sending
Port Speed Limit	Egress and ingress speed limit
DHCP Snooping	Prevent illegal DHCP server
ARP Spoofing	Prevent the ARP request deception Prevent the ARP reply to cheat
Network Management	RMON, SNMP v1/v2c/v3, IPv4/IPv6 Client, LLDP, ONVIF
Device Management	WEB management interface (GUI), User Account, System Information, System Log, System Upgrade, Configuration Management, SNTP, HTTP, HTTPS, Telnet/SSH, CLI
AAA	Radius, TACACS+
L3 Support	IPv4 DHCP Server IPv4 Static Route

### Power

PoE Power Budget	330 Watts
Power Supply	Internal Power Supply 100-240VAC, 50/60Hz

### Mechanical and Environment

LED Panel	PWR, ALM, POST, 1000/PoE, LNK/ACT
Operating Temperature	0°C~50°C
Storage Temperature	-40°C~85°C
Operating Humidity	5 to 95% RH (non-condensing)
Storage Humidity	5 to 95% RH (non-condensing)
Energy Conservation Design	Fanless
Dimension (WxHxD)	440 x 44 x 284 mm
Mounting	19" Rack Mount with L-shaped Bracket

### Standards and Certifications

Electromagnetic Compatibility	FCC Class A, CE EN 55024/32 Class A EN 61000-3-2/3 EN 61000-6-2/4
Shock	IEC 60068-2-27
Freefall	IEC 60068-2-31
Vibration	IEC 60068-2-6
Safety	EN/IEC/UL 60950-1
RoHS	Present

### Ordering Information

PSG-5124+	24-Port L2 Managed Gigabit PoE Switch
<b>Optional Accessories</b>	
UT-9125D-00	SFP 1.25G, Multi-mode 850nm, 550m
UT-9125D-10	SFP 1.25G, Single-mode 1310nm, 10km
UT-9125D-20	SFP 1.25G, Single-mode 1310nm, 20km
UT-9113WD-20	SFP 1.25G Bi-Di, TX1310/RX1550, 20km
UT-9114WD-20	SFP 1.25G Bi-Di, TX1550/RX1310, 20km
UT-9125T	SFP 1.25G, 10/100/1000Base-T

#### Note :

\* The SFP communication distance upon the request (support 550m to 120km).

\* Specifications subject to change without notice.



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