

LP-SGW2404FP 24 Copper PoE + 4 Fiber Gigabit Managed Switch with a 400W Power Supply

LPSGW2404FP_SS_ENB01W

Features

- **Resiliency and Availability**
 Link aggregation (LACP) increases aggregated bandwidth, optimizing the transport of business critical data.
- IEEE 802.1s Multiple Spanning Tree provides high link availability in multiple VLAN environments.
- Multicast snooping automatically prevents flooding of IP multicast traffic.
- Root Guard protects root bridge from malicious attack or configuration mistakes
- **Layer 2 Switching**
 * GVRP (GARP VLAN Registration Protocol) allows automatic learning and dynamic assignment of VLANs.
 * Supports up to 4K VLANs simultaneously (out of 4K VLAN IDs).
- **Quality of Service**
 * Supports L2/L3 granular CoS with 4 priority queues per port.
 * Rate limiting confines the traffic flow accurately according to the present value.
- **Security**
 * Supports multiple industry standard user authentication methods such as 802.1x, RADIUS.
 * Dynamic ARP Inspection blocks ARP packets from unauthorized hosts, preventing man-in-the-middle attacks.
 * L2/L3/L4 Access Control Lists restrict untrusted access to the protected resource.
 * Provides SSHv1/v2, SSL 2.0/3.0 and TLS v1 for access encryption.
- **Manageability**
 * IP Clustering provides high scalability and easy Single-IP-Management.
 * Supports Telnet, CLI, SNMP v1/v2c/v3, RMON and web access.
 * Port Mirroring enables monitoring selected ingress/egress traffic.
- **PoE**
 * 24 ports support the IEEE 802.3af and IEEE 802.3at PoE standards.
 * Maximum power supply capability of 400W and recommended limit of up to 320W of PoE loading.
 * Practical and easy power management GUI interface.



**LP-SGW2404FP
 24 Copper PoE+ 4 Fiber Gigabit Managed Switch with a 400W Power Supply.**

Designed for workgroups and departments, the **LP-SGW2404FP** provides wire-speed performance and full set of layer 2 management features. It provides a variety of service features and multiple powerful functions with high security.

Each of the 24 ports supports the IEEE 802.3af and IEEE 802.3at PoE standards. This switch acting as a PSE for PoE connected devices has a maximum power supply capability of 400W and recommended limit of up to 320W of PoE loading and a very practical power management GUI interface partially shown in the following picture.

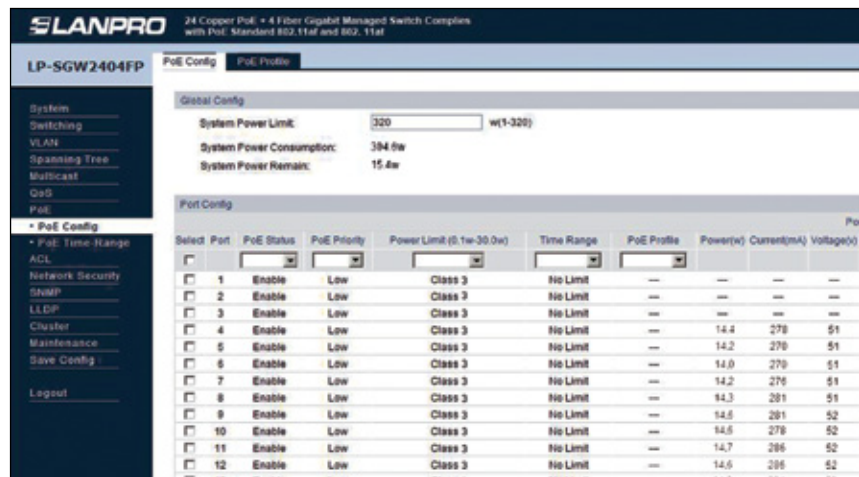


Figure 1

It also has 4 SFP combo ports supporting Mini-GBIC transceiver modules, delivering a very flexible network connectivity. These ports inhibit the corresponding ports for copper when activated.

The **LP-SGW2404FP** has robust security and management features for the Switching function, and the EIA-standardized framework and smart configuration capacity can provide flexible solutions for a variable scale of networks. ACL (Access Control List), 802.1x, IP-MAC-PORT-VID binding, IP Source Guard, DHCP snooping provide a robust security strategy.

L2/L3/L4 QoS, Voice VLAN and IGMP snooping optimize voice and video applications too. Link aggregation (LACP) increases aggregated bandwidth, optimizing the transport of business critical data. SNMP, RMON, WEB/CLI/Telnet Log-in bring abundant management policies. The **LP-SGW2404FP** Switch integrates multiple functions with excellent performance and is friendly to manage and hence fully meet the need of the users demanding higher networking performance.

A Product Specification of LP-SGW2404FP

Model No.	LP-SGW2404FP		
Product Name	LP-SGW2404FP 24 Copper PoE + 4 Fiber Gigabit Managed Switch		
Description	<p>The LP-SGW2404FP has 24 10/100/1000M UTP/STP RJ45 ports that support the IEEE 802.3af and IEEE 802.3at PoE standards. This switch has a maximum PoE power capability of 400W and recommended limit of up to 320W of PoE loading and a very practical power management GUI interface. It also has 4 SFP combo ports supporting Mini-GBIC transceiver modules for a very flexible network connectivity. These ports inhibit the corresponding copper ports when activated.</p> <p>The LP-SGW2404FP has robust security and management features for the Switching function. Provides an advanced Access Control List and strong safeguarding feature that delivers security coverage from core to edge for protecting against broadcast storms, ARP and Denial-of-Service attacks, etc. L2 to L4 Quality of Service provide enhanced traffic management capabilities to move your data smoother and faster. The Network is easily managed via Web GUI or CLI, SNMP and RMON. The LP-SGW2404FP is a high performance and cost effective access-edge solution for workgroups and department requirements.</p>		
Spotlight	<p>24 PoE ports compliant with IEEE 802.3af and IEEE 802.3at PoE standards.</p> <p>Maximum recommended delivery of PoE power: up to 320W.</p> <p>ACL (Access Control List), 802.1x, IP-MAC-PORT-VID binding, IP Source Guard, DHCP snooping provide robust security strategy.</p> <p>L2/L3/L4 QoS, Voice VLAN and IGMP snooping optimize voice and video applications.</p> <p>SNMP, RMON, Web and CLI via Console and Telnet bring abundant management policies.</p>		
Engine Solution	Chipset	Switch Chipset	Broadcom BCM53314S + BCM54685*2
		PSE Chipset	Microsemiconductor 3*PD69108+1*PD69100
Physical appearance	Dimensions (L*W*H)in/(mm)		17.3*13.0*1.7 /(440*330*44)
	Material of Housing		Treated Steel laminate
LED indicators	Indicator	Color	
	Power	Green * 1	
	System	Green * 1	
	Link/Act	Green/Orange * 24	
	PoE Max	Red*1	
Ports	10/100/1000M RJ45 Port	24	
	SFP (Mini GBIC)	4 (Shared with 21, 22, 23, 24)	
	Console (RJ45)	1	

PoE Ports	Standard	IEEE 802.3af, IEEE 802.3at
	PoE Port	24
	Max power per port (W)	30
	Overload port action	Turns port off when current overload sensed, alarm displayed, and then will try to supply the power again after some time. If overload is sensed again, it will repeat these actions indefinitely.
	Power Supply Maximum (Watt)	320
Network Media	10BASE-T	UTP category 3, 4, 5 cable (maximum 100m)
		EIA/TIA-568 100Ω STP (maximum 100m)
	100BASE-TX	UTP category 5, 5e cable (maximum 100m)
		EIA/TIA-568 100Ω STP (maximum 100m)
	100Base-FX	MMF, SMF
	1000Base-T	UTP category 5e, 6 cable (maximum 100m)
		EIA/TIA-568 100Ω STP (maximum 100m)
1000Base-X	MMF, SMF	
Protocols and Standards	IEEE Standards	IEEE802.3, 802.3u, 802.3ab, 802.3z, 802.3x, 802.1p, 802.1q , 802.1x , 802.1d, 802.1w, 802.1s, 802.1v, 802.3ac, 802.3af, 802.3at
	IETF Standards	RFC1541, RFC1112, RFC2236, RFC2618, RFC1757, RFC1157, RFC2571, RFC2030
	Other Protocols and Standards	CSMA/CD, TCP/IP, SNMPv1/v2c/v3, HTTP, HTTPS, SSHv1/v2
Basic switching Features	Switching Method	Store-and-Forward
	Backplane Switching Capacity (Gbps)	48
	MAC Address Table size (Kbytes)	8
	Jumbo Frame size (bytes)	10240
	Package Forwarding Rate speed (Mpps)	35.7
	VLAN	4K Active VLANs
		4K VID
	Link Aggregation	8 groups
		8 ports/group
	Multicast groups	256
	QoS (Quality of Service) priority queues	4 priority queues
	IP-MAC-PORT-VLAN Binding entries	200
Number of ACL	64	

Features	L2	Port Settings	Auto-negotiation
			Flow Control
			Port Mirror
			Traffic statistics
		Link Aggregation	Manual Trunking
			Load Balance
			Link Backup
			Algorithm based on Source/Destination MAC
			Algorithm based on Source/Destination IP
			LACP
		MAC Address Table	Aging Time Setting: 10-630s (default: 300s)
			Dynamic MAC address management
			MAC address binding and Filtering
			MAC address search
			Static MAC address
		VLAN	Port-Based VLAN
			802.1q Tag VLAN
			Voice VLAN
			MAC based VLAN
			Protocol based VLAN GARP/GVRP
		Spanning Tree	802.1d spanning tree protocol (STP)
			802.1w rapid spanning tree protocol (RSTP)
			802.1s multiple spanning tree protocol (MSTP)
			Loop Guard
			Root Guard
			TC-BPDU Guard
			BPDU Guard
			BPDU Filter
		Multicast Management	IGMP v1/v2/v3
			IGMP Snooping
			Fast Leave
			Multicast VLAN
			Static Multicast groups
Multicast Filter			
IGMP statistics			
Access Control List	Base on Time Range		
	L2 package filtering based on source and destination MAC, VID, 801.2p and protocol Type		
	L3 package filtering based on source and destination IP, ToS/DSCP		
	L4 package filtering based on source and destination port, TCP Flag, ICMP Type and Code		
	Action: Mirror, Redirect, Rate Limiting, QoS remark		
	Binding with Port and VID		
Quality of Service	4 priority queues		
	Port based COS		
	802.1p based COS		
	DSCP based COS		
	Priority Rules: SP, WRR, SP+WRR		
	Storm Control (Broadcast, Multicast, Unknown unicast)		
	Ingress/Egress rate limit based on port and flow		
	Voice VLAN		

Features	Security Features	Port Security
		Loopback Detection
		MAC address filter
		IP-MAC-PORT-VLAN binding (Manual, ARP scanning, DHCP snooping)
		ARP Guard
		DoS Defence
		L2/L3/L4 ACL
		802.1x authentication (port based, MAC address based)
		RADIUS authentication
		Guest VLAN
		SSLv2/SSLv3/TLSv1
		SSHv1/SSHv3
		Local User Name Password Authentication (2 levels)
		Management Session timeout
		Web-GUI access restriction based on IP, MAC and Port
	Management	SNMP v1/v2c/v3
		Public MIBs
		RMON
		Web-GUI (http/https)
		CLI (Telnet, Console, SSHv1/v2)
		Port Mirror
		Firmware upgrade by TFTP/Web
		Configuration Backup/Reload
		Topology discovery
		LLDP-MED
		DHCP Client
		DHCP Snooping
DHCP Option 82		
SNTP Client		
BOOTP Client		
Maintenance	Virtual Cable Test (VCT)	
	Loopback Test	
	Ping Diagnosis	
	Tracert Diagnosis	
	System Log	
	CPU Monitor	
Power	Input (VAC, f [Hz])	100-240, 50/60
	Power Supply maximum (Watt)	400
	Power (System) Watt	35.0
	Recommended Power (Watt) @ Full load of 320W	360.0
Environment	Operating Temperature °C/(°F)	0~40 (32~104)
	Storage Temperature °C/(°F)	-40~70 (-40~158)
	Operating Humidity %	10~90 non-condensing
	Storage Humidity %	5~90 non-condensing

Safety, Emission and others		FCC Part 15 B Class A	
		CE: EN55022, EN61000-3-2, EN61000-3-3, EN55024, EN60950-1	
		RoHS	
Packaging	Packing Type	Kraft Packing	
	Packing Dimensions (L*W*H) in/(mm)	20.8*17.3*3.9/ (528*440*100)	
	Carton Dimensions (L*W*H) in/(mm)	21.5*17.7*16.1 / (545*450*410)	
	Quantity/Carton	4	
	Package Contents		One Switch LP-SGW2404FP
			One Power Cord
			One Grounding Cord
			One DB9 to RJ45 Cable
			User Guide
		CD	
		Rackmount Kit	
	Rubber Feet		



Figure 2

B How to Order

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