

## LP-SGW2404F

24 Copper + 4 fiber Gigabit ports, Smart Managed Switch. SNMP ready

LPSGW2404F\_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 255 active VLAN groups and 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 preset value.

### Security

- Supports multiple industry standard user authentication methods such as 802.1x, RADIUS based on MAC Address or port.
- 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.



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Designed for enterprise use, the LP-SGW2404F 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.

The EIA-standardized framework and smart configuration capacity can provide flexible solutions for a variable scale of networks. ACL, 802.1x and Dynamic ARP Inspection provide robust security strategy. QoS and IGMP snooping/filtering optimize voice and video application. 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-SGW2404F Switch integrates multiple functions with excellent performance, and is friendly to manage, which can fully meet the need of the users demanding higher networking performance.

## A Specifications

<b>Model No. / Version</b>	LP-SWG2404F	
<b>Product Description</b>	The LP-SWG2404F has 24 10/100/1000M UTP/STP RJ45 ports with Auto-MDI/MDIX and 4 SFP combo ports supporting Mini-GBIC modules, giving you great network flexibility.	
	The LP-SWG2404F has robust security and management features. An advanced Access Control List and strong safeguard provide security coverage from core to edge and protect against broadcast storm, 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. And you can manage your network easily by Web GUI or CLI, SNMP and RMON. The LP-SWG2404F is a high performance and cost effective access-edge solution for workgroups and departments.	
<b>Spotlight</b>	Non-blocking switching	
	ACL(Access Control List), 802.1x, IP-MAC-PORT-VID binding, IP Source Guard, DHCP snooping provide robust security strategy	
	L2/L3/L4 QoS, Voice VLAN and IGMP snooping optimize voice and video applications	
	SNMP, RMON, Web and CLI via Console and Telnet bring abundant management policies	
<b>Solution</b>	<b>Chipset</b>	Broadcom BCM53314S + BCM54685*2
<b>Appearance</b>	<b>Dimensions (L*W*H)</b>	17.3*8.7*1.7 in. 440*220*44 mm
	<b>Material of Housing</b>	steel
<b>LED</b>	<b>Indicator</b>	<b>Color</b>
	Power	Green * 1
	System	Green * 1
	Link/Act 1000M	Green * 24 Green * 24
<b>Port</b>	<b>10/100/1000M RJ45 Port</b>	24
	<b>SFP (Mini GBIC)</b>	4 (Shared with 21, 22, 23, 24)
	<b>Console (RJ45)</b>	1
<b>Network Media</b>	<b>10BASE-T</b>	UTP category 3, 4, 5 cable (maximum 100m)
		EIA/TIA-568 100Ω STP (maximum 100m)
	<b>100BASE-TX</b>	UTP category 5, 5e cable (maximum 100m)
		EIA/TIA-568 100Ω STP (maximum 100m)
	<b>1000Base-T</b>	UTP category 5e, 6 cable (maximum 100m)
EIA/TIA-568 100Ω STP (maximum 100m)		
<b>1000Base-X</b>	MMF, SMF	
<b>Protocols and Standards</b>	<b>IEEE Standards</b>	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
	<b>IETF Standards</b>	RFC1541, RFC1112, RFC2236, RFC2618, RFC1757, RFC1157, RFC2571, RFC2030
	<b>Other Protocols and Standards</b>	CSMA/CD, TCP/IP, SNMPv1/v2c/v3, HTTP, HTTPS, SSHv1/v2
<b>Basic Features</b>	<b>Switching Method</b>	Store-and-Forward
	<b>Switching Capacity</b>	48G
	<b>MAC Address Table</b>	8K
	<b>Jumbo Frame</b>	10240 Bytes
	<b>Package Forwarding Rate</b>	35.7 Mpps

<b>Basic Features</b>	<b>VLAN</b>	4K Active VLANs	
		4K VID	
	<b>Link Aggregation</b>	8 groups	
		8 ports/group	
	<b>Multicast</b>	256 groups	
	<b>QoS (Quality of Service)</b>	4 priority queues	
	<b>IP-MAC-PORT-VLAN Binding</b>	200 entries	
<b>Number of ACL</b>	64		
<b>Features</b>	<b>L2 Features</b>	<b>Port Settings</b>	Auto-negotiation
			Flow Control
			Port Mirror
			Traffic statistics
		<b>Link Aggregation</b>	Manual Trunking
			Load Balance
			Link Backup
			Algorithm based on Source/Destination MAC
			Algorithm based on Source/Destination IP
			LACP
		<b>MAC Address Table</b>	Aging Time Setting: 10-630s (default: 300s)
			Dynamic MAC address management
			MAC address binding and Filtering
			MAC address search
			Static MAC address
		<b>VLAN</b>	Port-Based VLAN
			VLAN based on 802.1q Tag
			Voice VLAN
			MAC based VLAN
			Protocol based VLAN
			GARP/GVRP
		<b>Spanning Tree</b>	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			

<b>Features</b>	<b>L2 Features</b>	<b>Multicast Management</b>	IGMP v1/v2/v3
			IGMP Snooping
			Fast Leave
			Multicast VLAN
			Static Multicast groups
			Multicast Filter
			IGMP statistics
	<b>Access Control List</b>	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	
	<b>Quality of Service</b>	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	
	<b>Security Features</b>	Port Security	
		MAC address filter	
		IP-MAC-PORT-VLAN binding (Manual, ARP scanning, DHCP snooping)	
		ARP Guard	
		IP Source 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			
<b>Management</b>	SNMP v1/v2c/v3		
	Public and Private MIBs		
	RMON		
	Web-GUI (http/https)		
	CLI (Telnet, Console, SSHv1/v2)		
	Port Mirror		

<b>Features</b>	<b>Management</b>	Firmware upgrade by TFTP/Web
		Configuration Backup/Reload
	<b>Maintenance</b>	DHCP Client
		DHCP Snooping
		DHCP Option 82
		SNTP Client
		BOOTP Client
		Virtual Cable Test (VCT)
		Loopback Test
		Ping Diagnosis
		Tracert Diagnosis
		System Log
CPU Monitor		
<b>Power</b>	<b>Input</b>	100-240VAC, 50/60Hz
<b>Environment</b>	<b>Operating Temperature</b>	0°C~40°C (32°F~104°F)
	<b>Storage Temperature</b>	-40°C~70°C (-40°F~158°F)
	<b>Operating Humidity</b>	10%~90% non-condensing
	<b>Storage Humidity</b>	5%~90% non-condensing
<b>Safety, Emission and others</b>		FCC Part 15 B Class A
		CE: EN55022, EN61000-3-2, EN61000-3-3, EN55024, EN60950-1
		RoHS
<b>Packaging</b>	<b>Packing Type</b>	Kraft Packing
	<b>Packing Dimensions (L*W*H)</b>	20.8*13.2*3.9 in. 528*336*100 mm
	<b>Carton Dimensions (L*W*H)</b>	21.5*13.8*16.1 in. 545*350*410 mm
	<b>Quantity/Carton</b>	4
	<b>Package Contents</b>	One Switch
		One Power Cord
		One DB9 to RJ45 Cable
		User Guide
Rackmount Kit		
		Rubber Feet

**B How to Order**

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