

DPtech LSW3600 Series Ethernet Switches



Overview

DPtech LSW3600 Series Switches are the next generation high-performance Ethernet switches presented by DPtech. Based on DPtech's leading high performance hardware architecture and unified ConPlat operating system, this Series is provided with high density Ethernet interfaces and multiple access security management features. Equipped with highly reliable technologies including g PoE (Power over Ethernet) and FRRP fast ring network recovery protocol, it can fully meet the needs of multiple application scenarios such as campus convergence, access and Gigabit to Desktop. In addition, it provides environmentally-enhanced designs, including environmental monitoring and a wide range of operating temperature between 0 - 70°C, helping users save maintenance costs, simplify network management and create a green and low-carbon network utilization.

Product Features

■ Flexible Gigabit access

With flexible 24/48 100M or Gigabit access, the LSW3600 Series is compatible with non-multiplexed SFP interfaces to enable high density 100M and Gigabit access and protect users' investment.

■ Multiple services are enabled

The LSW3600 Series supports multicast protocols such as IGMP, IGMP Snooping and GMRP to satisfy the requirements of IP HD video surveillance and other multicast services.

Compatible with fast ring network recovery (FRRP) protocol and fast link recovery protocol (FLRP), the LSW3600 Series provides a self-recovery performance of less than 20 milliseconds in applications that are prone to lose packets, such as video conferencing and IP HD video surveillance. Multiple services and heavy traffic will have no impact on convergence time, thus ensuring the normal business operation.

It uses PoE (Power over Ethernet) technology to remotely supply power to connected devices (such as IP HD cameras, wireless AP, etc.) through the Ethernet, eliminating the need of deploying separated power supplies on site and greatly reducing the wiring and management costs of terminals.

■ Enhanced environmental adaptability

To satisfy the deployment requirements in different environments, the LSW3600 Series adopts an environment-enhanced design, which provides features such as a wide range of operating temperature and pressure, and lightning protection. This helps ensure highly reliable operation in complex electrical environments (e.g., corridor equipment room) and air-conditioning free deployment environments.

With low-power consumption hardware and optimized heat dissipation designs of air ducts and component layout, the LSW3600 Series ensures fully controllable power consumption. Besides, thanks to running status and environment monitoring, it can make adjustment to fan, interface, PoE power supply and other statuses to reduce energy consumption in accordance with ambient temperature, time period and other operating conditions. A number of statuses and alarms can be provided, including environmental alarms, power supply and fan alarms, interface, and CPU status.

■ **Sound security control policy**

By combining TAC (Terminal Access Control) and the back-end system, the LSW3600 Series integrates terminal security measures (such as Antivirus and patch fix) and network security measures (such as network access control and access permission control) to build an interacted security system. Through inspection, isolation, fix, management and monitoring of network access terminals, the entire network is upgraded from a passive defense to an active defense, a single point of defense to a comprehensive defense, and a decentralized management to a centralized management, improving the overall defense capabilities of the network.

LSW3600 Series provides multiple authentication modes based on MAC address, 802.1x, and Portal. With a built-in authentication server, it supports local access authentication for 256 to 512 users. It supports dynamic or static binding of user identity, such as user account, IP, MAC, VLAN, and interface. Dynamic distribution of policies is supported. In conjunction with UMC centralized network management platform from DPtech, real-time management of online users can be realized.

The LSW3600 Series is provided with enhanced ACL rules by supporting large-capacity ingress and egress ACLs. It also enables ACL distribution based on VLAN, which simplifies user configuration and avoids waste of ACL resources.

■ **Rich QoS policy**

The LSW3600 Series supports traffic identification on interfaces. It provides multiple stream classifications based on source MAC address, destination MAC address, source IP address, destination IP address, TCP/UDP port number, protocol type, and VLAN. With priority queues based on hardware, it is compatible with multiple queue scheduling algorithms such as SP, WRR, and SP+WPP. Support congestion management and rate limits on interfaces.

■ **Outstanding management**

With interface mirroring in both inbound and outbound directions, the LSW3600 Series can monitor packets on specified interfaces, and copy packets from these interfaces to monitor interface for network detection and troubleshooting.

Compatible with SNMPv1/v2/v3 standard network management protocol, the LSW3600 Series provides CLI command lines and a Web management interface, and realizes centralized management of the devices through DPtech' s Unified Management Center (UMC).

Product Series



LSW3600-8T2GP



LSW3600-24T2GC



LSW3600-48T4GP



LSW3600-24T2GP2GC-PWR



LSW3600-8GT2GP



LSW3600-8GT2GP-PWR



LSW3600-24GT4GC



LSW3600-8GT2GC



LSW3600-8GT2GC-PWR



LSW3600-24GT4GP



LSW3600-24GT4GP-PWR



LSW3600-48GT4GP



LSW3600-48GT4GP-PWR



LSW3600-24GT4GP-LI

Function Descriptions

Product Name	LSW3600-24T2GP2GC-PWR	LSW3600-8GT2GP-PWR	LSW3600-8GT2GC-PWR	LSW3600-24GT4GP-PWR	LSW3600-48GT4GP-PWR
Service interface	24 100M RJ45 + 2 Gigabit SFP+2 Gigabit Combo	8 Gigabit RJ45 +2 Gigabit SFP	8 Gigabit RJ45 +2 Gigabit Combo	24 Gigabit RJ45 +4 Gigabit SFP	48 Gigabit RJ45 +4 Gigabit SFP
Switching capacity	64Gbps	336Gbps/ 3.36Tbps	336Gbps/ 3.36Tbps	336Gbps/ 3.36Tbps	336Gbps/ 3.36Tbps
Packet forwarding rate	14.1Mpps	27/84Mpps	27/84Mpps	96/146Mpps	132/166Mpps
Dimension (width * depth * height: mm)	440*340*44	320*230*44	320*225*44	440*383*44	440*383*44
Weight	5.1kg	2.45kg	2.3kg	7 kg	7.5 kg
Input voltage	AC: 100~240V, 50/60Hz				
Power supply redundancy	Support RPS redundancy power supply (not available in LSW3600-8GT2GC-PWR)				
Power Consumption (Excluding PoE power)	16W	250W	8W	20W	30W
PoE external power	AC input 330W DC input 780W	AC input 125W	AC input 125W	AC input 370W DC input 740W	AC input 370W DC input 740W
Operating environment	-10°C~55°C, interface lightning protection				
MAC	Support static, dynamic, black hole MAC entries Support source MAC address filtering				
VLAN	Support 4K 802.1Q VLAN Support VLAN based on MAC/ IP subnet/authentication policy/interface VLAN Support GVRP Support QinQ				
Port features	Support port aggregation, port mirroring, RSPAN, port isolation, port traffic identification				
Spanning tree	Support STP, RSTP, MSTP				
DHCP	Support DHCP Client, DHCP Server, DHCP Snooping				
IP routing	Support static routing, RIPv1/2	Support static routing, RIPv1/2, OSPF			

Multicast	Support IGMP Snooping	Support IGMP Snooping, IGMP Proxy, GMRP
ACL	Support ACL rules based on VLAN, MAC address, IP address, TCP/UDP port number	
QoS	Support 8 priority queues per port Support traffic classification based on 802.1p/DSCP/TOS Support speed limit on ports and streams Support SP, WRR, SP + WRR queue scheduling	
Security features	Support authentication modes based on MAC, 802.1x, and Portal; support local and support local and centralized authentication Support port isolation, port security; Support broadcast storm suppression Support SSH2.0	
Management and Maintenance	Support real-time temperature detection and alarm Support SNMP, CLI, Web management, and Unified Management Center (UMC); Support local and remote output of system logs, operation logs, commissioning and debugging information, etc.	

Product Name	LSW3600-24GT4GP-LI	LSW3600-8GT2GC	LSW3600-8GT2G	LSW3600-24GT4GP	LSW3600-24GT4GC	LSW3600-48GT4GP
Service interface	24 Gigabit RJ45+ 4 Gigabit SFP	8 Gigabit RJ45+ 2 Gigabit Combo	8 Gigabit RJ45+ 2 Gigabit SFP	24 Gigabit RJ45+ 4 Gigabit SFP	24 Gigabit RJ45+4 Gigabit Combo	48 Gigabit RJ45+ 4 Gigabit SFP
Switching capacity	336Gbps/ 3.36Tbps	336Gbps/ 3.36Tbps	336Gbps/ 3.36Tbps	336Gbps/ 3.36Tbps	336Gbps/ 3.36Tbps	336Gbps/ 3.36Tbps/
Packet forwarding rate	96Mpps/ 146Mpps	27Mpps /84Mpps	27Mpps /84Mpps	96Mpps/ 146Mpps	96Mpps/ 146Mpps	132Mpps/ 166Mpps
Dimension (width * depth * height: mm)	440*230*44	320*225*44	330*230*44	440*240*44	440*230*44	440*290*44
Weight	2.79kg	1.9kg	1.66kg	4kg	2.83kg	4.3kg
Power supply	AC: 100~240V, 50/60Hz					
Power Consumption	18.6W	8W	7.32W	22W	18.6W	34W
Operating environment	0°C ~ 70°C, interface lightning protection					
Fan	Fanless					
MAC	Support static, dynamic, black hole MAC entries;					

	Support source MAC address filtering	
VLAN	Support 4K VLAN Support VLAN based on MAC/ IP subnet/authentication policy/interface VLAN Support QinQ	
Port features	Support port aggregation, port mirroring, RSPAN, port isolation, port traffic identification	
Spanning tree	Support STP, RSTP, MSTP	
DHCP	Support DHCP Client, DHCP Server, DHCP Snooping, DHCP Relay	
IP routing	-	Support static routing, RIPv1/v2, OSPF
Multicast	Support IGMP Snooping IGMP Proxy, GMRP	Support IGMP Snooping, IGMP Proxy, GMRP Support PIM-SM/PIM-SSM/PIM-DM
ACL	Support ACL rules based on VLAN, MAC address, IP address, TCP/UDP port number	
QoS	Support 8 priority queues per port Support traffic classification based on 802.1p/DSCP/TOS Support speed limit on ports and streams Support SP, WRR, SP + WRR queue scheduling	
Security features	Support authentication modes based on MAC, 802.1x, and Portal; support local and support local and centralized authentication Support dynamic ARP detection, one-click ARP binding, authorized ARP, ARP source suppression, ARP source address inspection Support port isolation, port security Support broadcast storm suppression Support SSH2.0	
Management and Maintenance	Support real-time temperature detection and alarm Support SNMP, CLI, Web management, and Unified Management Center (UMC) Support local and remote output of system logs, operation logs, debugging information	

Product Name	LSW3600- 8T2GP	LSW3600-24T2GC	LSW3600- 48T4GP
Service interface	8 100M RJ45+ interfaces 2 Gigabit SFP	24 100M RJ45+ interfaces 2 Gigabit Combo	48 100M RJ45+ interfaces 4 Gigabit SFP
Switching capacity	32Gbps	64Gbps	64Gbps
Packet forwarding rate	4.2Mpps	14.1Mpps	17.7Mpps
Dimension (width * depth * height: mm)	320*230*44	440*240*44	440*260*44
Weight	1.66kg	4kg	3.6kg
Power supply	AC: 100~240V, 50/60Hz		
Power Consumption	7.32W	10W	17W
Operating environment	-10°C~55°C interface lightning protection	0°C ~ 70°C, interface lightning protection	
Fan	Fanless		
MAC	Support static, dynamic, black hole MAC entries Support source MAC address filtering		
VLAN	Support 4K VLAN Support VLAN based on MAC/ IP subnet/authentication policy/interface VLAN Support QinQ		
Port features	Support port aggregation, port mirroring, RSPAN, port isolation, port traffic identification		
Spanning tree	Support STP, RSTP, MSTP		
DHCP	Support DHCP Client, DHCP Server, DHCP Snooping		
IP routing	Support static routing, RIPv1/v2, OSPF		
Multicast	Support IGMP Snooping		
ACL	Support ACL rules based on VLAN, MAC address, IP address, TCP/UDP port number		
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	Support SSH2.0
Management and Maintenance	Support real-time temperature detection and alarm Support SNMP, CLI, Web management, and Unified Management Center (UMC) Support local and remote output of system logs, operation logs, debugging information

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