

# DPtech Ethernet Switches

## LSW3600 Series



### Overview

DPtech LSW3600 Series Switches are the next generation high-performance Ethernet switches. 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 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.

### Features

#### ■ Flexible Gigabit access

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

#### ■ Multiple services

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**

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).

## Models



LSW3600-8GT2GP



LSW3600-8GT2GP-PWR



LSW3600-24GT4GP



LSW3600-24GT4GP-PWR



LSW3600-48GT4GP

## Specification

SPEC\Model	LSW3600-8GT2GP	LSW3600-8GT2GP-PWR	LSW3600-24GT4GP	LSW3600-24GT4GP-PWR	LSW3600-48GT4GP
Switching Capacity	20Gbps	20Gbps	56Gbps	56Gbps	104Gbps
Packet Forwarding Rate	14.9Mpps	14.9Mpps	41.6Mpps	41.6Mpps	77.4Mpps
10/100/1000 Base-T Port	8	8	24	24	48
SFP Port	2	2	4	4	4
PoE Ports Qty	NA	8	NA	24	NA
Dimension (w*d*h, mm)	280*180*44	280*180*44	440*246*44	440*244*44	440*296*44
Weight	1.66kg	1.7kg	3.5kg	7kg	4.3kg
Power Supply	AC: 100~240V, 50/60Hz; DC: 164~310VDC	AC: 100~240V, 50/60Hz; DC: 164~310VDC	AC: 100~240V 50/60Hz DC: Customized	AC: 100~240V 50/60Hz DC: Customized	AC: 100~240V 50/60Hz DC: Customized
Power Consumption	7.32W	Full load:145W	22W	Full load: 370W	34W
Operating Humidity	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Operating Temperature	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C
Storage Humidity	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C

Storage Temperature	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing	5%~95%, non-condensing
Fan	NA	1	NA	2	NA
MAC	Support static, dynamic, and blackhole MAC table entries (for single-port MAC address users $\geq 4K$ ). 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, RIP v1/v2, OSPF v2/v3				
ND	-	Support ND, ND Snooping			
Multicast	Support IGMP Snooping, IGMP Proxy, GMRP, etc.				
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				