

DPtech LSW3620 Series Ethernet Switches



Overview

DPtech LSW3620 series is high-performance Gigabit Ethernet switches developed by DPtech. LSW3620 series of switches provide high-density Gigabit access and non-convergence 10 Gigabit uplink capabilities.

LSW3620 series uses industry-leading, high-performance hardware architecture and ConPlat operating system developed by DPtech, provide powerful layer 2 and layer 3 processing capabilities, enhanced security access and control policies.

Virtual Switching Matrix (VSM) N:1 virtualization and Virtual Extension Matrix (VEM) vertical virtualization enable virtualization on core and access layer, support low power consumption, fanless design which help to build security, energy efficiency and virtualization next generation campus network.

Series



LSW3620-24GT4XGS



LSW3620-48GT4XGS

Features

High-density Gigabit Access, 10 Gigabit Uplink

- LSW3620 series provides 24/ 48 high density Gigabit ports with 4 10-Gigabit uplink ports, achieve 1:1 non-convergence interconnection, designed for large campus network which need high-performance and non-blocking network requirements.

Virtual Switching Matrix (VSM)

- LSW3620 Series supports VSM which can virtualize multiple physical devices into a single logical device, enable unified configuration and management.
- Simplify management: VSM technology allows user to login unified logical devices through any ports of any devices, ensuring unified management for all member devices under virtual switching matrix. Instead of having separate configuration and management through physically connecting to each member device.

- Simplify services: VSM is compatible with various kinds of L2~3 protocols. Cross-device link aggregation technology replaces traditional spanning tree protocol, eliminate large amounts of protocol packets interactions between devices hence reduce network convergence time.
- Flexible expansion: "Hot swap" can be achieved when new devices join or leave VSM virtual groups, which will not affect normal operation of other devices, ensuring flexible on-demand network expansion.

Virtual Extension Matrix (VEM)

- LSW3620 series support VEM vertical virtualization technology, innovative virtualizes access device become expansion port of core devices, unified entire network configuration and maintenance under core devices, significantly reduce network management complexity and improve the efficiency of operation and maintenance.
- Rapid deployment: VEM technology virtualize core layer and access layer device as a logical device, provide centralized configuration and management for access device under core layer, achieve "zero configuration" at access layer during deployment.
- Simplify services: VEM allow variety of services configuration under single logical device, greatly simplify VLAN, IP, routing and security policies, eliminate potential configuration conflicts.

Rich IPv6 Features

- Based on the leading ConPlat operating system, LSW3620 series supports IPv4/IPv6 dual stack, IPv4/IPv6 static routing, RIP, OSPF routing protocol, allow flexibility deployment of pure IPv4 or IPv6 network or IPv4 and IPv6 coexistence network, fully meet the migration of IPv4 to IPv6 transition needs.

Comprehensive Security Control

- LSW3620 series supports MAC authentication, 802.1X authentication, Portal authentication and other authentication methods to meet printers, mobile terminals, fixed PC and other access authentication requirements for different terminals; while LSW3620 built-in authentication server provide high capacity local authentication capabilities.
- LSW3620 series supports static and dynamic binding based on user ID in form of user accounts, dynamic IP, MAC, VLAN and port, support large-capacity ingress and egress ACL.
- ARP attacks and viruses are the major threat for LAN, LSW3620 series provides comprehensive of ARP protection with ARP detection, ARP binding, ARP authorization, ARP source suppression, ARP source address inspection comprehensive APR attack protection.

Energy Efficient Design

- Designed with industry-leading energy-saving chips and supports IEEE 802.3az EEE (Energy Efficient Ethernet) energy efficient technology, automatically adjust energy demand based on the utilization of the network connection. Reduce both connected endpoint power when Ethernet port is idle, restore power when data transfer begin, provide intelligent power management.
- Industry's only 10-Gigabit fanless switch, mute design greatly improves and reduces noise for the environment. Fanless design avoids single point of failure due to malfunction fan, improve equipment reliability.

Specification

Item	LSW3620-24GT4XGS	LSW3620-48GT4XGS
Service Ports	24 10/100/1000 BASE-T Ethernet ports, 4 SFP+ 10 Gigabit ports	48 10/100/1000 BASE-T Ethernet ports, 4 SFP+ 10 Gigabit ports
Switching Capacity	256 Gbps	256 Gbps
Forwarding Rate	96 Mpps	132 Mpps
Weight	2.4 Kg	3.7 Kg
Rated Power	54w (AC 110~220V)	54w (AC 110~220V)
Operating Temperature	-10 ~ 55°C	-10 ~ 55°C
Fan	Fanless	Fan
MAC Address Table	<ul style="list-style-type: none"> • Static, dynamic and black-hole MAC addresses • Source MAC address filtering 	
VLAN	<ul style="list-style-type: none"> • 4,000 IEEE 802.1Q VLAN • MAC/ IP subnet VLAN • Port based VLAN 	
Spanning Tree Protocol	<ul style="list-style-type: none"> • STP • RSTP • MSTP 	
DHCP	<ul style="list-style-type: none"> • DHCP Client • DHCP Relay • DHCP Snooping 	
Virtualization	<ul style="list-style-type: none"> • VSM virtualize multiple physical devices into a single logical device • VEM virtualizes access device become expansion port of core devices 	
Routing	<ul style="list-style-type: none"> • Static Routing, RIP v1/v2, OSPF, BGP • IPv6 Static Routing, RIPng, OSPFv3, BGP4+ • VRRP, VRRPv3 • Policy based routing 	
Multicast	<ul style="list-style-type: none"> • IGMP Snooping, IGMP Proxy, GMRP • PIM-SM, PIM-SSM, PIM-DM 	
ACL	<ul style="list-style-type: none"> • Standard and Extended ACL • VLAN, MAC Address, IP Address, TCP/ UDP ACL 	

Item	LSW3620-24GT4XGS	LSW3620-48GT4XGS
QoS	<ul style="list-style-type: none"> • Committed Access Rate (CAR) • 8 output queues at each port • Weighted Fair Queuing • Queue scheduling modes: Strict Priority (SP), Weighted Round Robin (WRR) and SP+WRR • RED and WRED • Packet redirection. • Re-labeling the 802.1p and DSCP priorities of a packet. 	
Security	<ul style="list-style-type: none"> • Hierarchical management and password protection of users • Portal, MAC address-based authentication • AAA, Radius authentication • IP + MAC + Port Binding • Dynamic ARP detection • Port Isolation and PVLAN • Port Security • Broadcast Suppression • STP Root Guard • BPDU Guard • DHCP Snooping • IP Source Guard • IEEE 802.1X • PKI • SSH 2.0 • HTTPS/SSL 	
Management and Maintenance	<ul style="list-style-type: none"> • Loading and upgrade via the XModem, File Transfer Protocol (FTP), and Trivial File Transfer Protocol (TFTP) • Configuration via CLI, Telnet, and Console port • SNMPv1/v2/v3, RMON, MIB • WEB management • DPtech UMC system to perform equipment management • NTP • Power alarms • Fan and temperature alarms • Device Link Detection Protocol (DLDP) 	

Part Number	Model Description	Remarks
02050354	DPtech LSW3620-24GT4XGS Host	Required
02050355	DPtech LSW3620-48GT4XGS Host	Required
02010219	DPtech 10G SFP+ 0.5m DAC Cable	Optional
02010218	DPtech 10G SFP+ 1m DAC Cable	Optional
02010210	DPtech 10G SFP+ 3m DAC Cable	Optional
02010075	DPtech SFP+ 10-GigaBit Optical Module, Multi-mode (850nm,0.3km,LC)	Optional
02010078	DPtech SFP+ 10-GigaBit Optical Module, Single Mode (1310nm,10km,LC)	Optional
02010005	DPtech 1000BASE-SX SFP Transceiver, Multi-Mode (850nm, 550m, LC)	Optional
02010004	DPtech 1000BASE-LX SFP Transceiver, Single Mode (1310nm, 10km, LC)	Optional
02010013	DPtech 1000BASE-LH40 SFP Transceiver, Single Mode (1310nm, 40km, LC)	Optional
02010014	DPtech 1000BASE-LH40 SFP Transceiver, Single Mode (1550nm, 40km, LC)	Optional
02010300	DPtech 1000BASE-T SFP Transceiver	Optional

Note:

“Required” indicates that the item described is provided directly with the ordered host. The user does not need to purchase it specially.

“Optional” indicates the item described should be purchased by the user if it is needed.

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