



Key Features

- 56/100 Gbps Non-blocking Switch Fabric (GS2200-24: 56 Gbps, GS2200-48: 100 Gbps)
- 4 Dual-personality (RJ-45/SFP) GbE Interfaces
- Port Security and Enhanced 802.1x Port Authentication
- MAC Freeze and Intrusion Lock
- 8 IEEE 802.1p Hardware Priority Queues
- WFQ, WRR and SPQ Queuing Algorithms

Enterprise LAN Switches

ZyXEL Switch 2200 Series

The ZyXEL Gigabit Switch 2200 Series consists of two switches: the ZyXEL GS2200-24 and GS2200-48. The 2200 Series provides high-performance and secure 10/100/1000 connectivity, access resiliency and security, traffic Management and QoS. The cost-effective and easy-to-use 2200 series is specially designed for branch offices and SME users.

Key Benefits

High-Performance Switch Architecture Meeting SME Needs

ZyXEL's Switch 2200 Series incorporates a high-performance switching architecture that provides 56/100 Gbps non-blocking switch fabric (GS2200-24: 56 Gbps, GS2200-48: 100 Gbps), 41.7/74.4 million packets per-second forwarding rate (GS2200-24: 41.7 Gbps, GS2200-48: 74.4 Gbps) and wire-speed performance to connect high performance computers, servers and network backbones. For branch offices and SME users, the 2200 Series eases the delivery of converged application deployments and adapts to changing business needs with flexible configurations. In addition, the ZyXEL GS2200 Series is optimized for high-density Gigabit Ethernet deployments to the desktop and includes a diverse range of switches meeting edge, distribution and small network connectivity requirements.

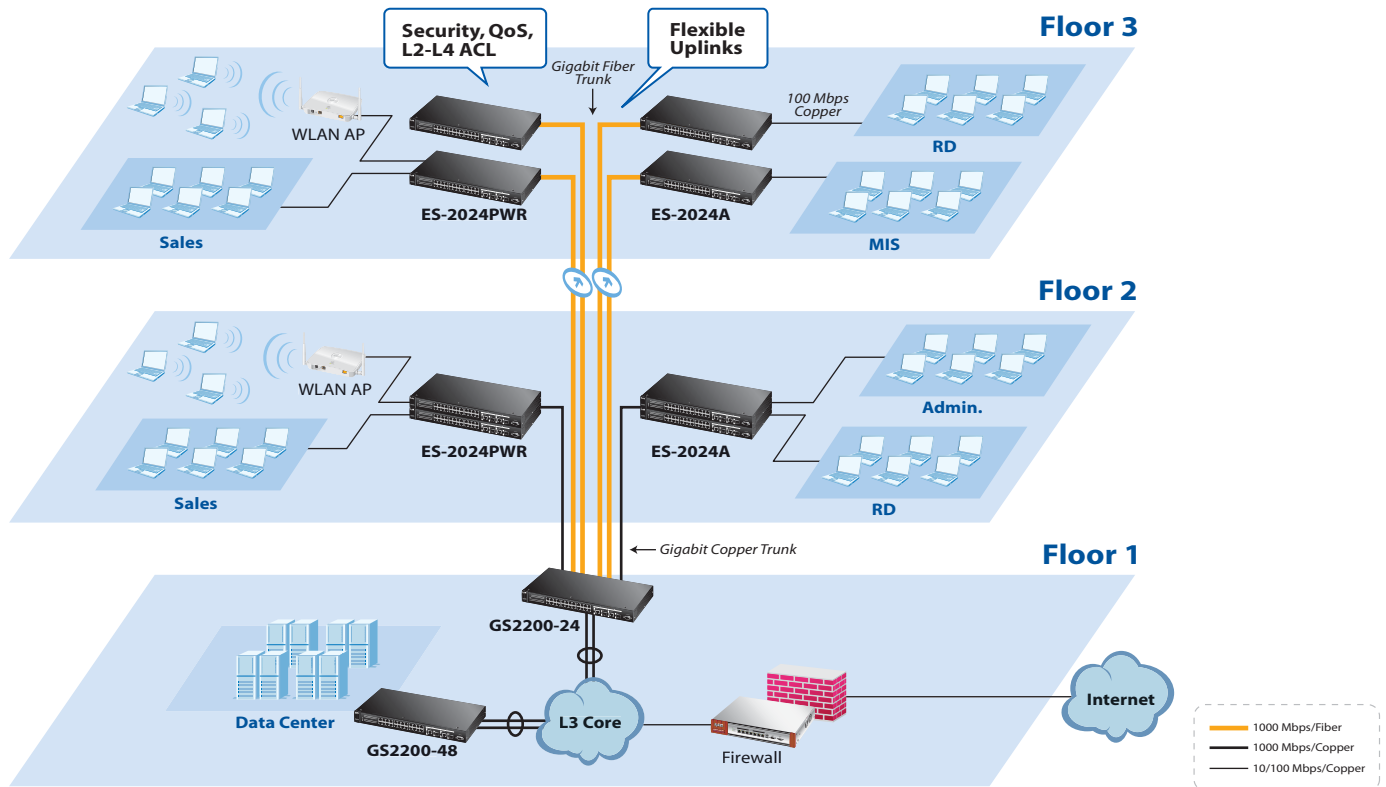
Enhances Management and Control for Less Management Efforts

The ZyXEL Switch 2200 Series is easy to use and manage. It's designed to increase productivity through reliable supports to business applications. ZyXEL-exclusive iStacking™ clustering management technology that can cross different floors and routing domains to locate other iStacking-capable switches in the same management cluster, thus allowing administrators to manage 24 switches with one single IP. This greatly reduces operating costs and offers more flexible maintenance of ZyXEL Switches. IT staff can opt for the Web or command line interface to suit their needs, and even encrypt their instructions with SSHv1/v2 and SSL/TLS. With these sophisticated functionalities, the IT staff is empowered to build a highly secure and efficient corporate network with minimum effort.



Saving Future Network Expansion and Upgrading Costs

ZyXEL's Switch 2200 Series provides rich features including VLANs, CoS/QoS, Port Trunking, Rapid Spanning Tree, Port Security, RSTP (802.1w), Security (Port Security and 802.1x authentication) and network management to meet future SME requirements. Meanwhile, it delivers the most cost-effective GE solution to empower Gigabit Converged Network for branch offices and SME users.

Key Applications



Specifications

Model	GS2200-24	GS2200-48
Product Picture		
Port Density		
10/100/1000Base-T	24	44
Open SFP slot (GbE)	-	2
Dual Personality GbE Ports	4	4
Performance		
Switching Capacity	56Gbps	100 Gbps
Switching Forwarding Rate	41.7 Mpps	74.4 Mpps
Packet Buffer	448 KB	512 KB
MAC Address	16K	8K
Power Requirement		
Input Voltage of AC	100 to 240 V, 50/60 Hz	100 to 240 V, 50/60 Hz
Maximum Power Consumption	31 Watt	92.8 Watt
Environmental Specification		
Operating Temperature	0°C ~ 50°C	0°C ~ 45°C
Storage Temperature	- 25°C ~ 70°C	
Operating Humidity	10% ~ 90%, (non-condensing)	
Physical Feature		
Dimensions	440 (W) x 173 (D) x 43 (H) mm	438 (W) x 310 (D) x 44.45 (H) mm
Weight	2.5 kg	4.0 kg

Features

Standard Compliance

- IEEE 802.3 10Base-T Ethernet
- IEEE 802.3u 100Base-Tx Ethernet
- IEEE 802.3ab 1000Base-T Ethernet
- IEEE 802.3z
- IEEE 802.3x flow control
- IEEE 802.1D spanning tree protocol
- IEEE 802.1w rapid spanning tree protocol
- IEEE 802.1s multiple spanning tree protocol
- IEEE 802.1p class of service, priority protocols
- IEEE 802.1Q VLAN tagging
- IEEE 802.1x port authentication
- IEEE 802.3ad LACP aggregation
- IEEE 802.1ad VLAN stacking

Traffic Management and QoS

- Rate limiting: Rule-based/port-based bandwidth control, 64 kbps granularity
- Dual-Rate-Three-Color (GS2200-48 only)
- Port-based egress traffic shaping (GS2200-48 only)
- Broadcast storm control
- IEEE 802.1p with 8 priority queues per port for different traffic types
- WRR (Weighted Round Robin)/SPQ/WFQ scheduling algorithm
- Supports DSCP
- Supports DSCP to 802.1p priority mapping
- Supports IGMP/IGMP snooping v1, v2, v3
- Congestion control on all ports

IP Routing and Service Features (GS2200-48 only)

- 64 IP routing domains
- 256 IP address table
- Wire-speed IP forwarding
- RIP v1, v2
- Static routing
- Support DHCP server/relay

Link Aggregation

- IEEE 802.3ad LACP link aggregation compliant
- Support static manually port trunking
- Up to 6 aggregation groups, 8 ports/per group randomly selected

Resilient Network

- IEEE 802.1w Rapid Spanning Tree Protocol (RSTP)
- IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
- VRRP (GS2200-48 only)
- BPS (Backup Power System) power supply redundancy (GS2200-48 only)

User Security and Authentication

- MAC filtering per port secures access to each port
- IEEE 802.1Q tag-based and port-based VLAN
- Support GVRP, automatic VLAN member registration
- 256 static VLAN, up to 4K dynamic VLAN (GS2200-48 only)
- 1K static VLAN, up to 4K dynamic VLAN (GS2200-24 only)
- Full range 4K PVID support
- Port-base VLAN & VLAN isolation
- Intrusion lock
- MAC freeze
- MAC filtering per port secures access to each port
- Specific MAC forwarding per port: Only specified MAC addresses can access the network (Port security)
- Limited MAC number per port
- IP source guard
- Loop guard
- RADIUS MAC login
- IP filtering
- TCP/UDP socket filtering
- BPDU transparency
- 802.1x port-based authentication, compensated assignment over VLAN and bandwidth for valid access
- TACACS+

Network Administration Security

- User name/password required for Web/Telnet/local console administrators
- Two-level security by specific SNMP read/write community
- Multiple login session
- Multiple access permission management
- SSH v1/v2
- SSL/TLS

Network Management

- Supports ZyXEL iStacking™, up to 24 switches can be managed by one IP address
- Web-based management
- Telnet CLI
- SNMP v1, v2, v3
- RS-232c local console
- IP management: Static IP or DHCP client
- RMON four RMON groups 1, 2, 3, 9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring, and analysis
- Port mirroring: supports source/destination/ both port mirroring

Intelligent ACL (L2/L3/L4 Access List Control)

- Based on MAC address
- Based on VLAN
- Based on IP address
- Based on protocol type
- Based on TCP/UDP type
- Based on DSCP

Certification

- UL 60950-1
- CSA 60950-1
- EN 60950-1
- IEC 60950-1
- EU RoHS compliant



Enterprise LAN Switches

ZyXEL Switch 2200 Series

SFP Transceivers


Optional Gigabit SFP Transceivers

Speed	Model	Type	Description
Gigabit	SFP-1000T	RJ-45 connector	Up to 100 m using standard Ethernet cable
	SFP-SX-D	LC connector	SFP SX 550 m commercial type transceiver, DDMI version
	SFP-LX-10-D	LC connector	SFP LX 10 km commercial type transceiver, DDMI version
	SFP-BX1310-10 -D	LC connector	Bidirectional singlemode, up to 10 km reach, DDMI version
	SFP-BX1490-10 -D	LC connector	Bidirectional singlemode, up to 10 km reach, DDMI version
	SFP-LHX1310-40-D	LC connector	SFP LHX 1310 wavelength 40 km commercial type transceiver, DDMI version
	SFP-ZX-80-D	LC connector	SFP ZX 80 km commercial type transceiver, DDMI version

IMPORTANT: Bi-directional SFP must be used in pairs (Example: 1 x SFP-BX1310-10-D and 1 x SFP-BX1490-10-D connected together is a solution)

Accessories

Optional Backup Power System (GS2200-48 only)

Model	Features
BPS-120 	<ul style="list-style-type: none">• Up to 6 switches can be connected to one BPS-120• Provides power to one switch without traffic or user interruption or switch rebooting in the event of a switch internal power supply failure• Temperature, power and fan speed monitoring

For more product information, visit us on the web at www.ZyXEL.com



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