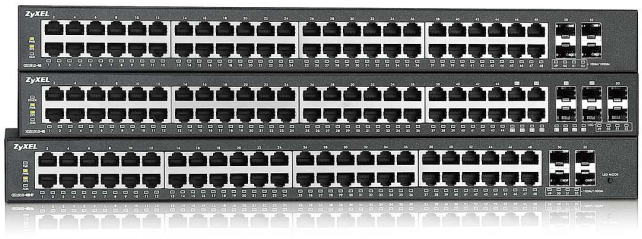


- Advanced Smart GbE L2 ACL switching features
- 48/88/104/176 Gbps non-blocking switch fabric (XGS1910-24: 88, XGS1910-48:176, GS1910-48/48HP: 104, GS1910-24/24HP: 48)
- 2/4 10GbE uplink SFP+ ports (XGS1910-24/XGS1910-48)
- IEEE 802.3at Power over Ethernet Plus (PoE+, GS1910-24HP/ GS1910-48HP)
- Supports IPv6
- Fanless design (GS1910-24)

XGS1910/ GS1910 Series

24/48-port GbE Smart Managed Switch

Smart Managed Switch Embracing Greater Bandwidth and Future-proof Technologies

The ZyXEL XGS1910/GS1910 Series 24/48-port GbE Smart Managed Switch is smart switches with optional 10GbE uplink for maximum throughput to fulfill increasing network demands for Small and Medium Businesses (SMB). The Series consists of six models—XGS1910-24, XGS1910-48, GS1910-24, GS1910-24HP, GS1910-48 and GS1910-48HP—that provide 24/48 10/100/1000BASE-T PoE Plus or non-PoE copper ports. The XGS1910 models provide 2/4 10GbE connectivity for uplinks and/or stacking.

The XGS1910/GS1910 Series is ideal for securing 10/100, Gigabit and 10GbE connectivity; it also offers IEEE 802.3az, access security, advanced prioritization, traffic-monitoring capabilities and a fanless design. Meanwhile, the Series supports smooth IPv6 migration for future expansions. As a result, the XGS1910/GS1910 Series is suitable for fulfilling SMB network needs with cost-effective, valuable frameworks.

Benefits

Smart Layer 2 features enrich access networks

The ZyXEL XGS1910/GS1910 Series consists of full-featured GbE Ethernet switches providing comprehensive Layer 2 switching capabilities such as Access Control List (ACL) rules and 802.1AB LLDP and LLDP-MED, etc. The Series delivers the essential network features for businesses with easy-to-use management at a right price. That is, the XGS1910/GS1910 Series is the best Edge switch range for small- and medium-size businesses to build high-performance network efficiently.

GbE bandwidth for desktops

When videos of higher resolution and data flow constantly evolve, network user demands might not be satisfied and business operations hampered by insufficient bandwidth. The ZyXEL XGS1910/ GS1910 Series provides GbE bandwidth to desktops to ensure sufficient bandwidth for all business communications, data delivery and daily operations. Taking advantages of GbE, businesses can create premium worry-free IT environment and expand operations with desirable efficiency and productivity.

Energy management with IEEE 802.3az and IEEE 802.3at PoE Plus

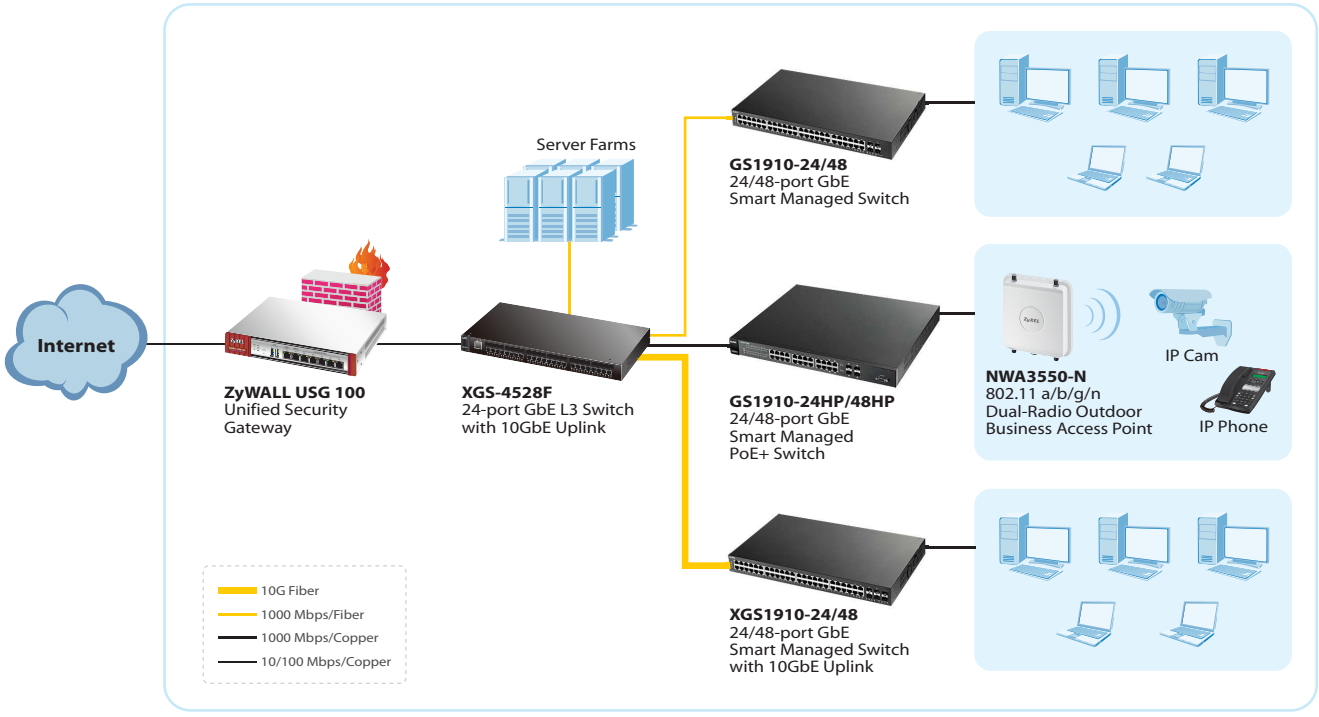
As operating overheads such as electric bills increase constantly due to the rising green awareness, businesses have to avoid unnecessary energy waste. The built-in IEEE 802.3az Energy Efficient Ethernet (EEE) features of ZyXEL XGS1910/GS1910 Series can reduce energy consumption of Ethernet devices through defining low-power modes and adjusting the operating timeframe to help saving the related costs effectively.

Meanwhile, although IEEE 802.3af is insufficient for providing power to large-scale network deployments or high-power devices such as outdoor Wi-Fi APs, IP cams and IP phones, fortunately the ZyXEL GS1910 Series features IEEE 802.3at PoE Plus with up to 30 W power per port to flexibly extend network deployments. 802.3at PoE Plus makes the switch ideal for connecting numerous powered devices to form a flawless business network.

Optional 10GbE uplink for flexible data delivery

Ready for the future 10 Gigabit Ethernet, the ZyXEL XGS1910 Series collocates 2/4 10GbE connectivity for uplinks that allow SMBs to deliver higher bandwidth for congestion relief and smooth data delivery. Furthermore, 10GbE Gigabit uplinks to desktops also allow businesses to become highly efficient IT environments for secure, smooth daily online operations.

Application Diagram



Specifications

Model		XGS1910-24	XGS1910-48	GS1910-24	GS1910-24HP	GS1910-48	GS1910-48HP
Product Name		24-port GbE Smart Managed Switch with 10GbE Uplink 	48-port GbE Smart Managed Switch with 10GbE Uplink 	24-port GbE Smart Managed Switch 	24-port GbE Smart Managed PoE+ Switch 	48-port GbE Smart Managed Switch 	48-port GbE Smart Managed PoE+ Switch 
Port Density							
10/100/1000BASE-T, fixed		20	44	20	-	48	-
10/100/1000BASE-T, PoE, fixed		-	-	-	20	-	48
Open SFP (GbE)		-	-	-	-	4	4
Dual-personality GbE ports		4	4	4	4	-	-
10GbE Port		2	4	-	-	-	-
Performance							
Switch Capacity (Gbps)		88	176	48	48	104	104
Switch Forwarding Rate (Mpps)		65.5	131	35.7	35.7	77.4	77.4
Packet Buffer (Bytes)		4 M	4 M	512 K	512 K	4 M	4 M
MAC Address		32K	32K	8K	8K	32K	32K
Power Requirement							
Input Voltage of AC		AC Power input (100 V - 240 V)					
		50 - 57 V output for PoE					
Maximum Power Consumption (Watt)		32	61	18	484	49	519
PoE Power Budget (Watt)		-	-	-	370	-	370
Physical Specifications							
Item	Dimensions (WxDxH)(mm/in.)	430 x 180 x 44/ 16.93 x 7.09 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73	430 x 180 x 44/ 16.93 x 7.09 x 1.73	440 x 350 x 44/ 17.32 x 13.78 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73	440 x 350 x 44/ 17.32 x 13.78 x 1.73
	Weight (kg/lb.)	2.1/4.63	3.1/6.83	2.1/4.63	4.7/10.36	3/6.61	4.9/10.80
Packing	Dimensions (WxDxH)(mm/in.)	545 x 303 x 95/ 21.46 x 11.93 x 3.74	540 x 362 x 87/ 21.26 x 14.25 x 3.43	545 x 303 x 95/ 21.46 x 11.93 x 3.74	568 x 452 x 100/ 22.36 x 17.80 x 3.94	540 x 362 x 87/ 21.26 x 14.25 x 3.43	568 x 452 x 100/ 22.36 x 17.80 x 3.94
	Weight (kg/lb.)	3.1/6.83	4.11/9.06	2.95/6.5	5.97/13.16	3.66/8.06	6.67/14.7
Environmental Specifications							
Operating Environment	Temperature	0°C to 50°C/32°F to 122°F					
	Humidity	10% to 95% (Non-condensing)					
Storage Environment	Temperature	-40°C to 70°C/-40°F to 158°F					
Other Specifications							
MTBF (hrs)		> 100000					
Heat Dissipation (BTU/hr)		109.1	206.3	61.4	1650.4	167.1	1769.8

XGS1910/GS1910 Series

24/48-port GbE Smart Managed Switch

Features

Standard Compliance
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3ab
- IEEE 802.3z 1000BASE-X
- IEEE 802.3x flow control
- IEEE 802.3az EEE support
- IEEE 802.1p CoS support
- IEEE 802.3af/at (PoE models only)
- Full-duplex and half duplex operation with IEEE 802.3x flow control and backpressure
- Store and forward
- N-way auto-negotiation

Traffic Management and QoS
- Port-based VLAN
- MAC-based VLAN
- Protocol-based VLAN
- IEEE 802.1Q VLAN tagging
- Guest VLAN
- Voice VLAN
- Storm control (unicast, broadcast, and unknown traffic) 802.1p priority queues per port
- IEEE 802.1p queuing method (scheduler)
- Input priority mapping
- QoS control list (QCL mode)
- Queue egress shaper
- Tag remarking
- Port-based rate limiting (ingress/egress)
- Rate limiting per IP/TCP/UDP per port
- IEEE 802.3x flow control
- Policy-based prioritization

Class of Service (CoS)
- IEEE 802.1p class of service (SPQ, WFQ, SPQ/WFQ combination capable)
- DiffServ (DSCP)
- Policy-based CoS

Resilience and Availability
- IEEE 802.1D STP/802.1w RSTP/802.1s MSTP
- IEEE 802.1s instances
- IEEE 802.3ad LACP (GS1910-24/24HP: max. 12 trunks, 16 links per trunk; GS1910-48/48HP: max. 26 trunks, 12 links per trunk; XGS1910-24/48: max. 32 trunks, 12 links per trunk)
- Port error recovery

Security
- IEEE 802.1x
- Port security
- MAC authentication
- MAC address limit
- Layer 2 MAC filtering
- Layer 3 IP filtering
- Layer 4 TCP/UDP socket filtering
- BPDU guard
- Static MAC forwarding
- Multiple RADIUS servers
- Multiple TACACS+ servers
- IEEE 802.1X VLAN and QoS assignment by RADIUS
- RADIUS authentication
- TACACS+ authentication
- RADIUS accounting
- RADIUS authorization
- TACACS+ authorization
- SSL
- DHCP snooping
- ARP inspection
- UPNP
- Policy-based security filtering
- Port isolation
- IP source guard
- ACL packet filtering
- ACL for policing/port copying

Layer 2 Multicast
- IGMP snooping (v1, v2, v3)
- IGMP snooping fast leave
- IGMP snooping statistics
- IGMP throttling
- MVR support
- IGMP filtering
- IGMP proxy mode & snooping mode selection
- IPv6 MLD snooping

IPv6
- IPv6 management
- IPv6 over Ethernet (RFC 2464)
- Dual-stack (RFC 4213)
- ICMPv6 (RFC 4884)
- Neighbor discovery (RFC 4861)
- IPv6 addressing architecture (RFC 4291)
- SNMP over UDP over IPv4/IPv6

Physical Stacking (XGS1910 Series)
- Single point of management (SPOM)
- Configurable or automatic master re-selection
- Congestion management
- Mixed stacking (up to 8 devices)
- Cross-stack mirroring (many to 1)
- Cross-stack link aggregation

Discovery
- IEEE 802.1AB LLDP
- LLDP-MED

Network Management
- Web-based management
- SNMP v1, v2c, v3
- RMON groups 1, 2, 3, 9 (history, statistics, alarms and events) for enhanced traffic management, monitoring and analysis
- Dual-image
- NTPv4 client
- DHCP relay
- DHCP client
- DHCP option 82
- Syslog
- Port mirroring and remote port mirroring
- DNS client, proxy
- sFlow (available on the GS1910 Series and XGS1910 Series in standalone mode)
- EEE

MIB Information
- RFC 1213 MIB II
- IEEE 802.1Q bridge MIB
- RFC 2819 RMON (group 1, 2, 3, 9)
- RFC 2863 Interface group MIB using SMIv2
- RFC 3411 SNMP management frameworks
- RFC 3414 user-based security model for SNMPv3
- RFC 3415 view-based access control model for SNMP
- RFC 3635 Ethernet-like MIB
- RFC 3636 IEEE 802.3 MAU MIB
- RFC 4133 entity MIB v3
- RFC 4188 bridge MIB
- RFC 4668 RADIUS auth. client MIB
- RFC 4670 RADIUS accounting MIB
- RFC 5519 multicast group membership discovery MIB
- IEEE 802.1 MSTP MIB
- IEEE 802.3AB LLDP-MIB
- IEEE 802.3ad LACP MIB
- IEEE 802.1X PAE MIB
- TIA 1057 LLDP-MED

Certifications
- Safety: LVD
- EU RoHS compliant
- EMI: FCC, CE, CNS, ICES
- BSMI: CNS14336 & CNS13438

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

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