

## Smart Managed Switch Embracing Greater Bandwidth and Future-proof Technologies

- **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)**

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.

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.



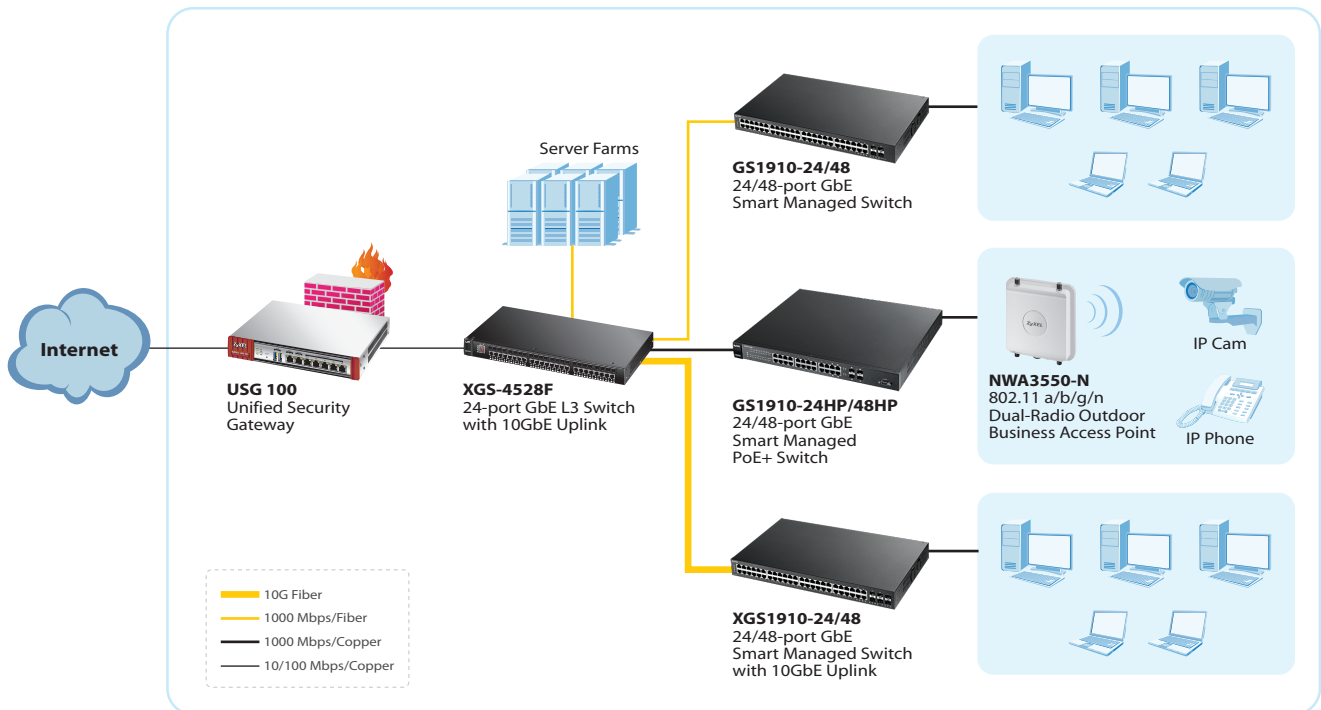
**XGS1910/GS1910 Series**  
**24/48-port GbE Smart Managed Switch**

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.

## Key Applications



### Specifications

Model	XGS1910-24	XGS1910-48	GS1910-24	GS1910-24HP	GS1910-48	GS1910-48HP	
<b>Product name</b>	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 	
<b>Port Density</b>							
<b>10/100/1000 BASE-T, fixed</b>	20	44	20	-	48	-	
<b>10/100/1000 BASE-T, PoE, fixed</b>	-	-	-	20	-	48	
<b>Open SFP (GbE)</b>	-	-	-	-	4	4	
<b>Dual-personality GbE ports</b>	4	4	4	4	-	-	
<b>10GbE port</b>	2	4	-	-	-	-	
<b>Performance</b>							
<b>Switching capacity (Gbps)</b>	88	176	48	48	104	104	
<b>Switch forwarding rate (Mpps)</b>	65.5	131	35.7	35.7	77.4	77.4	
<b>Packet buffer (byte)</b>	4 M	4 M	512 K	512 K	4 M	4 M	
<b>MAC address</b>	32 K	32 K	8 K	8 K	32 K	32 K	
<b>Power</b>							
<b>Input voltage of AC</b>	AC Power input (100 V - 240 V) 50 - 57 V output for PoE						
<b>Max. power consumption (watt)</b>	32	61	18	484	49	519	
<b>PoE power budget (watt)</b>	-	-	-	370	-	370	
<b>Physical Specifications</b>							
<b>Item</b>	<b>Dimensions (WxDxH) (mm/in.)</b>	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	430 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
	<b>Weight (kg/lb.)</b>	2.1/4.63	3.1/6.83	2.1/4.63	4.7/10.36	3/6.61	4.9/10.80
<b>Packing</b>	<b>Dimensions (WxDxH) (mm/in.)</b>	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
	<b>Weight (kg/lb.)</b>	3.1/6.83	4.11/9.06	2.95/6.5	5.97/13.16	3.66/8.06	6.67/14.7
<b>Included accessories</b>	<ul style="list-style-type: none"> <li>• Power cord</li> <li>• Rack mounting kit</li> </ul>						
<b>Environmental Specifications</b>							
<b>Operating environment</b>	<b>Temperature</b>	0°C to 50°C/32°F to 122°F					
	<b>Humidity</b>	10% to 95% (non-condensing)					
<b>Storage environment</b>	<b>Temperature</b>	-40°C to 70°C/-40°F to 158°F					
<b>Other Specifications</b>							
<b>MTBF (hr)</b>	> 100000						
<b>Heat dissipation (BTU/hr)</b>	109.1	206.3	61.4	1650.4	167.1	1769.8	

### 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)
- 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
- 802.1p priority queues per port
- IEEE 802.1p queuing method (scheduler)

- Input priority mapping
- QoS control list (QCL mode)
- Port-based rate limiting (ingress/egress)
- Rate limiting by IP/TCP/UDP
- IEEE 802.3x flow control
- Policy-based prioritization

#### Class of Service (CoS)

- IEEE 802.1p class of service
- DiffServ (DSCP)
- Policy-based CoS

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- IEEE 802.1p class of service
- DiffServ (DSCP)
- Policy-based CoS

### Resilience and Availability

- IEEE 802.1D STP/802.1w RSTP/802.1s MSTP
- IEEE 802.3ad LACP
- 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
- RADIUS
- TACACS+
- SSL
- DHCP snooping
- ARP inspection
- UPNP
- Policy-based security filtering

- Port isolation
- IP source guard
- ACL packet filtering

### Layer 2 Multicast

- IGMP snooping (v1, v2, v3)
- MVR support
- IGMP filtering
- 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)

### Discovery

- IEEE 802.1AB LLDP
- LLDP-MED

### Network Management

- Web-based management
- SNMP v1, v2c, v3
- RMON groups 1, 2, 3, 9
- Dual-image
- NTPv4

- DHCP relay
- Syslog
- Port mirroring
- DNS
- sFlow
- EEE

### MIB Information

- RFC 1213 MIB II
- IEEE 802.1Q bridge MIB
- RFC 2819 RMON (group 1, 2, 3, 9)
- RFC 3414 user-based security model for SNMPv3
- RFC 3415 view-based access control model for SNMP
- RFC 4133 entity MIB v3
- RFC 4188 bridge MIB
- IEEE 802.1 MSTP MIB
- IEEE 802.3AB LLDP-MIB
- IEEE 802.3ad LACP MIB

### Certifications

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

## Accessories

### Transceivers (Optional)

Model	Speed	Connector	Wavelength	Max. Distance	DDMI
<b>SFP10G-SR*</b>	10-Gigabit SFP+	Duplex LC	850 nm	300 m (328 yd)	Yes
<b>SFP10G-LR*</b>	10-Gigabit SFP+	Duplex LC	1310 nm	10 km (10936 yd)	Yes
<b>SFP-1000T</b>	Gigabit SFP	RJ-45	-	100 m (109 yd)	-
<b>SFP-BX1310-10-D</b>	Gigabit SFP	LC	1310 nm (Tx); 1490 nm (Rx)	10 km (10936 yd)	Yes
<b>SFP-BX1490-10-D</b>	Gigabit SFP	LC	1490 nm (Tx); 1310 nm (Rx)	10 km (10936 yd)	Yes
<b>SFP-LHX1310-40-D</b>	Gigabit SFP	LC	1310 nm	40 km (43744 yd)	Yes
<b>SFP-LX-10-D</b>	Gigabit SFP	LC	1310 nm	10 km (10936 yd)	Yes
<b>SFP-SX-D</b>	Gigabit SFP	LC	850 nm	550 m (601 yd)	Yes
<b>SFP-ZX-80-D</b>	Gigabit SFP	LC	1550 nm	80 km (87488 yd)	Yes

\* Compatible with XGS1910 series only.

### Direct Attach Cables\* (Optional)

Model	Connector	Cable Length
<b>DAC10G-1M</b>	SFP+ to SFP+	1 m (39.37 inch)
<b>DAC10G-3M</b>	SFP+ to SFP+	3 m (118.11 inch)

\* Compatible with XGS1910 series only.

For more product information, visit us on the web at [www.ZyXEL.com](http://www.ZyXEL.com)



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