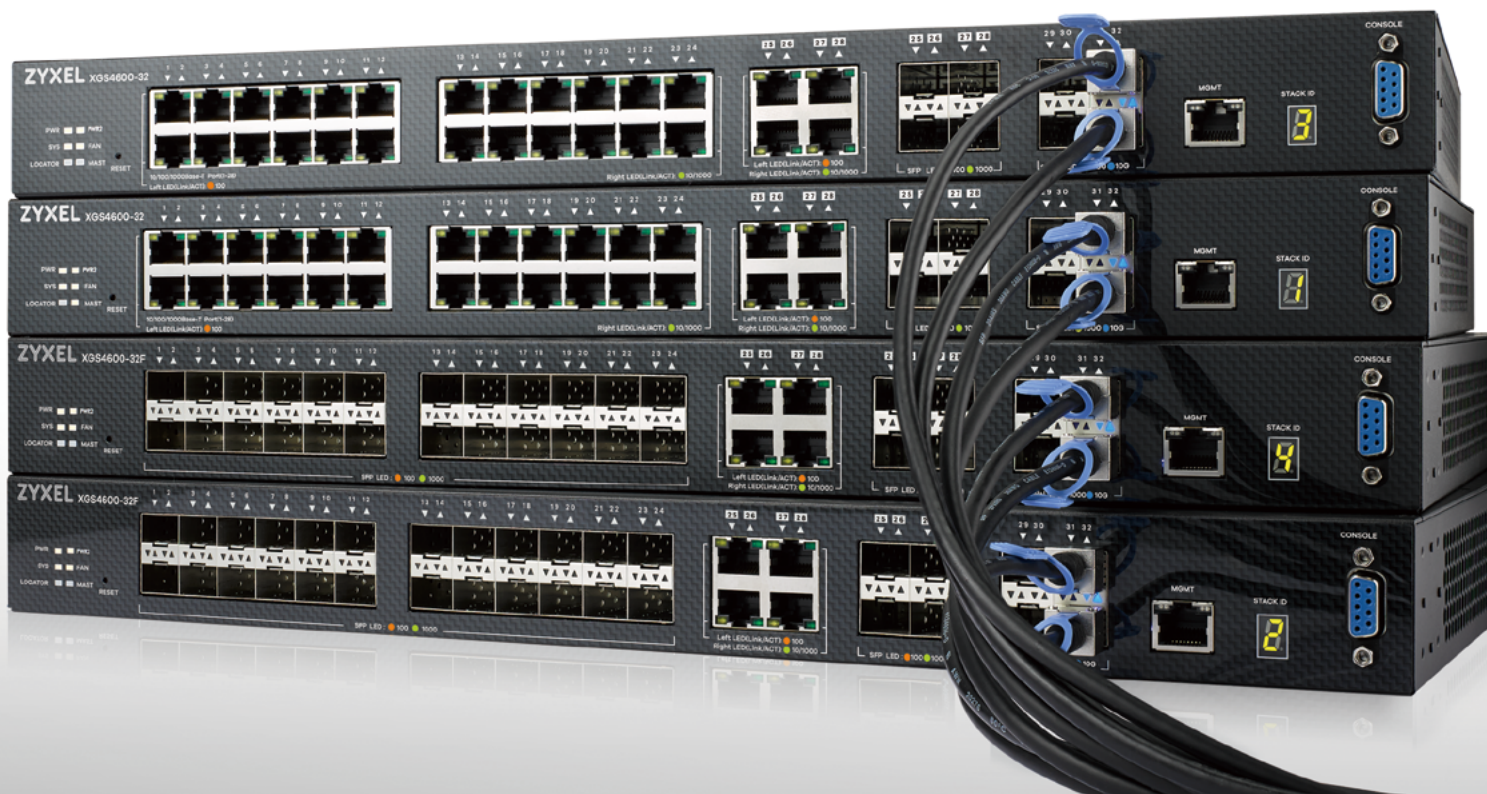


ZYXEL

Your Networking Ally



Switch

Quick Sales Guide

Fixed-Port Switch Quick Finder

Switch Class	Series	Performance	Model	
L3 Managed	4600 Series	Gigabit Ethernet with 10G Uplink	XGS4600-32	
			XGS4600-32F	
			XGS4600-52F*	
L2 Managed	3700 Series	10 Gigabit Ethernet	XS3700-24	
		Gigabit Ethernet with 10G Uplink	XGS3700-24	
			XGS3700-24HP	
			XGS3700-48	
			XGS3700-48HP	
	3700 Series	Gigabit Ethernet	GS3700-24	
			GS3700-24HP	
			GS3700-48	
			GS3700-48HP	
	3500 Series	Fast Ethernet	ES3500-8PD	
			ES3500-24	
	2210 Series	Gigabit Ethernet with 10G Uplink	XGS2210-28	
			XGS2210-28HP	
			XGS2210-52	
			XGS2210-52HP	
		Gigabit Ethernet	GS2210-8	
			GS2210-8HP	
			GS2210-24	
			GS2210-24HP	
Smart Managed	1920 Series	10 Gigabit Ethernet	XS1920-12	

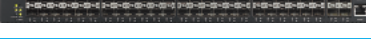
* XGS4600-52F will be available in Q4 2017.

Key Features

Model	Ports	Key Features
XGS4600-32	24-port 1000BASE-T 4 x GbE combo ports 4 x 10G SFP+ slots	• Four built-in 10G SFP+ uplinks enable congestion-free, smooth data delivery for high-bandwidth applications • Provides high-bandwidth with true physical stacking of up to 4 units and 112 Gigabit ports
XGS4600-32F	24-port SFP slots 4 x GbE combo ports 4 x 10G SFP+ slots	• L2 and L3 stacking capability to fulfill larger network deployment needs • High resiliency with redundant power supply units
XGS4600-52F*	48-port SFP slots 4 x 10G SFP+ slots	• Four built-in 10G SFP+ uplinks enable congestion-free, smooth data delivery for high-bandwidth applications • L2 and L3 stacking capability to fulfill larger network deployment needs • High resiliency with redundant power supply units
XS3700-24	8-port 10GBASE-T 12 x 10GbE SFP+ slots 4 x 10GbE combo ports	• Flexible 10GbE connectivity with 12 SFP+ ports, 8 10G BASE-T ports and 4 SFP+ combo ports • Layer-2 plus (L2+) feature set equipped with static, policy route and VRRP • No single-point of failure hardware and software design • Future-proofed with IPv6 support • Comprehensive security features to ensure network availability • Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect
XGS3700-24	24-port 1000BASE-T 4 x 10G SFP+ slots	• Full Layer 2 feature set with Layer 3 features including static routing, policy-based routing, VRRP and ECMP support
XGS3700-24HP	24-port 1000BASE-T PoE 4 x 10G SFP+ slots	• Four (4) 10GbE SFP+ uplink flexibility • 24 or 48 ports of Gigabit Ethernet desktop connectivity • Hot-swappable power supply module • Internal redundant power supply design • High PoE power budget up to 1000 W • Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect
XGS3700-48	48-port 1000BASE-T 4 x 10G SFP+ slots	
XGS3700-48HP	48-port 1000BASE-T PoE 4 x 10G SFP+ slots	
GS3700-24	24-port 1000BASE-T 4 x GbE SFP slots	• Full Layer 2 feature set with Layer 3 features including static routing, policy-based routing, VRRP and ECMP support • Four (4) SFP uplink flexibility • 24 or 48 ports of Gigabit Ethernet desktop connectivity • Hot-swappable power supply module • Internal redundant power supply design • High PoE power budget up to 1000 W • Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect
GS3700-24HP	24-port 1000BASE-T PoE 4 x GbE SFP slots	
GS3700-48	48-port 1000BASE-T 4 x GbE SFP slots	
GS3700-48HP	48-port 1000BASE-T PoE 4 x GbE SFP slots	
ES3500-8PD	8-port 10/100BASE-TX 2 x GbE combo ports	• 16 K MAC address table • Policy-based QoS optimizes multi-service quality • IGMP snooping v1, v2, v3, MVR • Multilayer (L2/L3/L4) ACL suite for security protection • High redundancy and resilient architecture with RSTP and port trunking • IPv6 management support • Streamlined network initialization by supporting ZON utility
ES3500-24	24-port 10/100BASE-TX 4 x GbE combo ports	
XGS2210-28	24-port 1000BASE-T 4 x 10G SFP+ slots	• Gigabit connectivity, plus four (4) SFP+ ports to deal with high-bandwidth network with ease • Physical stacking up to 2 units through 2 standard 10G SFP+ ports • VLAN communication through access switch by static routing feature for agile, reliable network operations • Supports sFlow that analyzes client behavior to discover source of bandwidth abuse • Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, CPU protection • Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect
XGS2210-28HP	24-port 1000BASE-T PoE 4 x 10G SFP+ slots	
XGS2210-52	48-port 1000BASE-T 4 x 10G SFP+ slots	
XGS2210-52HP	48-port 1000BASE-T PoE 4 x 10G SFP+ slots	
GS2210-8	8-port 1000BASE-T 2 x GbE combo ports	
GS2210-8HP	8-port 1000BASE-T PoE 2 x GbE combo ports	
GS2210-24	24-port 1000BASE-T 4 x GbE combo ports	• GbE RJ-45, GbE combo (RJ-45/SFP) and fixed GbE SFP connectivity • PoE models comply with IEEE 802.3at PoE Plus with 375 W power budget (24HP/48HP) and 180 W power budget (8HP/24LP) • L2 multicast, IGMP snooping, and MVR for convergence • Enhanced network protection with IP source guard, DHCP snooping, ARP inspection, CPU protection • L2, L3 and L4 filtering, MAC freeze, port isolation, guest VLAN for improved isolation and access control • Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect
GS2210-24HP	24-port 1000BASE-T PoE 4 x GbE combo ports	
GS2210-24LP	24-port 1000BASE-T PoE 4 x GbE combo ports	
GS2210-48	44-port 1000BASE-T 2 x GbE SFP slots 4 x GbE combo ports	
GS2210-48HP	48-port 1000BASE-T PoE 2 x GbE SFP slots 4 x GbE combo ports	
XS1920-12	10-port 10GBASE-T 2 x 10GbE combo ports	• Upgrades your network to 10GbE connectivity easily and economically • Simplified configuration with user-friendly web-based management GUI • Flexible 10G connection to 10G servers and network storage through both copper and fiber • Zyxel One Network experience enables simple network management and maintenance • Dual firmware images and configuration ensure network availability • Future-proofed with IPv6 support • Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect

* XGS4600-52F will be available in Q4 2017.

Fixed-Port Switch Quick Finder

Switch Class	Series	Performance	Model	
Smart Managed	1920 Series	Gigabit Ethernet	GS1920-24	
			GS1920-24HP	
			GS1920-48	
			GS1920-48HP	
	1900 Series	Gigabit Ethernet	GS1900-8	
			GS1900-8HP	
			GS1900-10HP	
			GS1900-16	
			GS1900-24E	
			GS1900-24	
			GS1900-24HP	
			GS1900-48	
			GS1900-48HP	
Web Managed	1200 Series	Gigabit Ethernet	GS1200-5HP	
			GS1200-8HP	
Unmanaged	1100 Series	Gigabit Ethernet	GS1100-8HP	
			GS1100-10HP	
			GS1100-16	
			GS1100-24	
			GS1100-24E	
		Fast Ethernet	ES1100-8P	
			ES1100-16P	
			ES1100-16	
			ES1100-24E	
			ES1100-24	
Nebula Cloud Managed	NSW200 Series	Gigabit Ethernet with 10G Uplink	NSW200-28P	
	NSW100 Series	Gigabit Ethernet	NSW100-10	
			NSW100-10P	
			NSW100-28	
			NSW100-28P	
Rugged Managed	200 Series	Gigabit Ethernet	RGS200-12P	
Rugged Unmanaged	100 Series	Gigabit Ethernet	RGS100-5P	

Key Features

Model	Ports	Key Features
GS1920-24	24-port 1000BASE-T 4 x GbE combo ports	
GS1920-24HP	24-port 1000BASE-T PoE 4 x GbE combo ports	• GbE RJ-45, GbE combo (RJ-45/SFP) and fixed GbE SFP connectivity • PoE models comply with IEEE 802.3at PoE Plus with 375 W power budget • Reliable network availability with Loop Guard, IPSG, and CPU protection • RADIUS, static MAC forwarding and 802.1X authentication-enhance network security • Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect
GS1920-48	44-port 1000BASE-T 2 x GbE SFP slots 4 x GbE combo ports	
GS1920-48HP	48-port 1000BASE-T PoE 2 x GbE SFP slots 4 x GbE combo ports	
GS1900-8	8-port 1000BASE-T	
GS1900-8HP	8-port 1000BASE-T PoE	
GS1900-10HP	8-port 1000BASE-T PoE 2 x GbE SFP slots	
GS1900-16	16-port 1000BASE-T	• Easy browser-based switch management • Quick and easy set up wizard • Advanced network error prevention features (loop protection, dual images, storm control, DoS and SSL) • Fanless design (GS1900-8/8HP/10HP/16/24/24E) • Green Ethernet IEEE 802.3az support and intelligent Zyxel green features • High-power PoE support IEEE 802.3at (GS1900-8HP/10HP/24HP/48HP) • Streamlined network initialization by supporting ZON utility
GS1900-24E	24-port 1000BASE-T	
GS1900-24	24-port 1000BASE-T 2 x GbE SFP slots	
GS1900-24HP	24-port 1000BASE-T PoE 2 x GbE SFP slots	
GS1900-48	48-port 1000BASE-T 2 x GbE SFP slots	
GS1900-48HP	24-port 1000BASE-T 24-port 1000BASE-T PoE 2 x GbE SFP slots	
GS1200-5HP	1-port 1000BASE-T 4-port 1000BASE-T PoE	• Four Gigabit high-power PoE+ ports • 60 watt total PoE budget • Intuitive Web management • Quality of Service for better traffic control • Multicast IGMP snooping v1/v2 and v3 compatible for streaming applications • Virtual LAN for enhanced network security
GS1200-8HP	4-port 1000BASE-T 4-port 1000BASE-T PoE	
GS1100-8HP	4-port 1000BASE-T 4-port 1000BASE-T PoE	
GS1100-10HP	8-port 1000BASE-T PoE 2 x GbE SFP slots	• Non-blocking, wire-speed transmission • Auto MDI/MDI-X support • IEEE 802.3az compliant • Fanless design for silent operation • IEEE 802.3x flow control supported • IEEE 802.1p CoS supported • Jumbo frame support (up to 9 K bytes)
GS1100-16	16-port 1000BASE-T	
GS1100-24	24-port 1000BASE-T 2 x GbE SFP slots	
GS1100-24E	24-port 1000BASE-T	
ES1100-8P	4-port 10/100BASE-T 4-port 10/100BASE-T PoE	
ES1100-16P	8-port 10/100BASE-T 8-port 10/100BASE-T PoE	• Non-blocking, wire-speed transmission • Auto MDI/MDI-X support • IEEE 802.3az draft Energy Efficient Ethernet compliant (ES1100-16/24/24E) • Fanless design for silent operations (ES1100-8P/16/24E/24) • IEEE 802.3x flow control supported • IEEE 802.1p CoS supported
ES1100-16	16-port 10/100BASE-T	
ES1100-24E	24-port 10/100BASE-T	
ES1100-24	24-port 10/100BASE-T	
NSW200-28P	24-port 1000 BASE-T PoE 4 x 10G SPF+ slots	
NSW100-10	8-port 1000 BASE-T 2 x Gigabit combo ports	• Layer-2 Gigabit access switching with 8/24- port PoE and non-PoE models • Optimized for quality voice and video traffic with high 375 (NSW100-10P)/180 (NSW100-10P)-watt power budget PoE technology • Support 10GE uplinks to servers for high bandwidth network (NSW100-28P) • User-friendly ACL and VLAN configuration • Support Port Mirroring for network traffic monitoring • Support DHCP Server Guard and IGMP snooping • RADIUS, static MAC forwarding and 802.1X authentication
NSW100-10P	8-port 1000 BASE-T PoE 2 x Gigabit combo ports	
NSW100-28	24-port 1000 BASE-T 4 x Gigabit combo ports	
NSW100-28P	24-port 1000 BASE-T PoE 4 x Gigabit combo ports	
RGS200-12P	8 x 1000BASE-T 4 x GbE SFP slots	• Wide-ranging operating temperature design from -40°C to 75°C • Fanless design and compact mechanism with IP30 standard • Redundant ring technology with quick failover in less than 20 ms • Dual power inputs (12 V - 58 V DC) • Full PoE+ support and high PoE power budget up to 240 W
RGS100-5P	4 x 1000BASE-T 1 x GbE SFP slot	• Wide-ranging operating temperature design from -40°C to 75°C • Fanless design and compact mechanism with IP30 standard • All PoE ports support PoE+ and high PoE power budget up to 120 W • Dual power inputs (12 V - 58 V DC)

LAN Switches Feature Matrix

Model	Switch 4600 Series			Switch 3700 Series			
	XGS4600-32	XGS4600-32F	XGS4600-52F*	XS3700-24	XGS3700-24	XGS3700-24HP	XGS3700-48
Switch class	Layer 3	Layer 3	Layer 3	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)
Hardware							
Total port count	32	32	52	24	28	28	52
100 Mbit RJ-45 ports	-	-	-	-	-	-	-
100 Mbit RJ-45 PoE ports	-	-	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	8	-	-	-
1 Gigabit RJ-45 ports	24	-	-	-	24	-	48
1 Gigabit RJ-45 PoE ports	-	-	-	-	-	24	-
1 Gigabit SFP slots	-	24	48	-	-	-	-
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	4	-	-	-
Gigabit combo ports (RJ-45/SFP)	4	4	-	-	-	-	-
10 Gigabit SFP+ slots	4	4	4	12	4	4	4
Backplane bandwidth (Gbps)	136	136	176	480	128	128	176
Forwarding rate (Mpps)	101.1	101.1	130.9	357.14	95	95	131
MAC addresses table	32 K	32 K	32 K	16 K	16 K	16 K	16 K
Management							
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI/Web GUI	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
iStacking (single IP management)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Out-of-band management port	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routing/Redundancy							
OSPF	Yes	Yes	Yes	-	-	-	-
RIP v1, v2	Yes	Yes	Yes	-	-	-	-
Static IP routing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
VRRP	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Spanning Tree (STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Redundant power support	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quality of Service							
Priority queues	8	8	8	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	Yes	Yes	Yes	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security							
MAC freeze/intrusion lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.1X authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL security filter L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sflow	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CPU protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Green Features							
Fanless	-	-	-	-	-	-	-
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others							
MTBF (hr)	860,611	794,270	815,860	446,035	280,000	220,000	250,000
Heat dissipation (BTU/hr)	160.27	204.94	252.68	Single PSU: 487.971 Dual PSU: 549.01	Single PSU: 578 Dual PSU: 70.3	Single PSU: 534.3 Dual PSU: 1,098.5	Single PSU: 74.7 Dual PSU: 87.6
Physical Specifications							
Dimensions (WxDxH)(mm/in.)	441 x 270 x 44/ 17.36 x 10.63 x 1.73	441 x 270 x 44/ 17.36 x 10.63 x 1.73	441 x 360 x 44 / 17.36 x 14.17 x 1.73	440 x 438 x 44/ 17.32 x 17.24 x 1.73	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57
Weight (kg/lb.)	3.96/8.73	4.21/9.28	4.97/10.96	7.392/16.3	7.27/16.03	7.55/16.64	7.57/16.69
Included accessories	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit

* XGS4600-52F will be available in Q4 2017.

Model	Switch 3700 Series					Switch 3500 Series	
	XS3700-48HP	GS3700-24	GS3700-24HP	GS3700-48	GS3700-48HP	ES3500-24	ES3500-8PD
Switch class	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2	Layer 2
Hardware							
Total port count	52	28	28	52	52	28	10
100 Mbit RJ-45 ports	-	-	-	-	-	24	8
100 Mbit RJ-45 PoE ports	-	-	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	-	-	-	-
1 Gigabit RJ-45 ports	-	24	-	48	-	-	-
1 Gigabit RJ-45 PoE ports	48	-	24	-	48	-	-
1 Gigabit SFP slots	-	4	4	4	4	-	-
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	-	4	2
10 Gigabit SFP+ slots	4	-	-	-	-	-	-
Backplane bandwidth (Gbps)	176	56	56	104	104	12.8	5.6
Forwarding rate (Mpps)	131	42	42	77	77	9.6	4.17
MAC addresses table	16 K	16 K	16 K	16 K	16 K	16 K	16 K
Management							
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI/Web GUI	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
iStacking (single IP management)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Out-of-band management port	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Routing/Redundancy							
OSPF	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-
Static IP routing	Yes	Yes	Yes	Yes	Yes	-	-
VRRP	Yes	Yes	Yes	Yes	Yes	-	-
Spanning Tree (STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Redundant power support	Yes	Yes	Yes	Yes	Yes	-	-
Quality of Service							
Priority queues	8	8	8	8	8	8	8
Data prioritization (SPQ/WRP/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	-	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security							
MAC freeze/intrusion lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.1X authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL security filter L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sflow	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CPU protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Green Features							
Fanless	-	-	-	-	-	Yes	Yes
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others							
MTBF (hr)	200,000	280,000	220,000	250,000	200,000	133,798	485,196
Heat dissipation (BTU/hr)	Single PSU: 1,898.3 Dual PSU: 3,823.6	Single PSU: 173.9 Dual PSU: 214.5	Single PSU: 1,794.7 Dual PSU: 3,707.7	Single PSU: 242.5 Dual PSU: 279.3	Single PSU: 1,862.9 Dual PSU: 3,789.5	48	32.4
Physical Specifications							
Dimensions (WxDxH)(mm/in.)	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 200 x 44.5/ 17.32 x 7.87 x 1.75	215.5 x 123 x 42/ 8.48 x 4.84 x 1.65
Weight (kg/lb.)	8.02/17.68	7.24/15.96	7.44/16.4	7.55/16.64	8/17.64	2.6/5.73	1.04/2.29
Included accessories	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Power adapter • Rack mounting kit

Model	Switch 2210 Series							
	XGS2210-28	XGS2210-28HP	XGS2210-52	XGS2210-52HP	GS2210-8	GS2210-8HP	GS2210-24	GS2210-24HP
Switch class	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Hardware								
Total port count	28	28	52	52	10	10	28	28
100 Mbit RJ-45 ports	-	-	-	-	-	-	-	-
100 Mbit RJ-45 PoE ports	-	-	-	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	-	-	-	-	-
1 Gigabit RJ-45 ports	24	-	48	-	8	-	24	-
1 Gigabit RJ-45 PoE ports	-	24	-	48	-	8	-	24
1 Gigabit SFP slots	-	-	-	-	-	-	-	-
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	2	2	4	4
10 Gigabit SFP+ slots	4	4	4	4	-	-	-	-
Backplane bandwidth (Gbps)	128	128	176	176	20	20	56	56
Forwarding rate (Mpps)	95.2	95.2	130.9	130.9	15	15	41.7	41.7
MAC addresses table	16 K	16 K	16 K	16 K	16 K	16 K	16 K	16 K
Management								
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI/Web GUI	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
iStacking (single IP management)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Out-of-band management port	-	-	-	-	-	-	-	-
Routing/Redundancy								
OSPF	-	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-	-
Static IP routing	Yes	Yes	Yes	Yes	-	-	-	-
VRRP	-	-	-	-	-	-	-	-
Spanning Tree (STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Redundant power support	-	-	-	-	-	-	-	-
Quality of Service								
Priority queues	8	8	8	8	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	-	-	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security								
MAC freeze/intrusion lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.1X authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL security filter L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sflow	Yes	Yes	Yes	Yes	-	-	-	-
CPU protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Green Features								
Fanless	Yes	-	-	-	Yes	-	Yes	-
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others								
MTBF (hr)	831,699	560,726	970,594	500,904	1,382,030	1,155,719	616,247	949,326
Heat dissipation (BTU/hr)	68.2	1,483.4	153.3	1,688	41.94	784.30	92.75	1625.55
Physical Specifications								
Dimensions (WxDxH)(mm/in.)	441 x 270 x 45/ 17.36 x 10.63 x 1.77	440 x 330 x 44.5/ 17.32 x 12.99 x 1.75	441 x 270 x 45/ 17.36 x 10.63 x 1.77	440 x 330 x 44.5/ 17.32 x 12.99 x 1.75	250 x 150 x 44/ 9.84 x 5.91 x 1.72	330 x 230.5 x 44.5/ 12.99 x 9.07 x 1.75	440 x 131 x 44.5/ 17.32 x 5.16 x 1.75	440 x 330 x 44.5/ 17.32 x 12.99 x 1.75
Weight (kg/lb.)	3.7/8.16	5.06/11.16	3.86/8.51	5.38/11.86	1.425/3.14	2.703/5.96	2.26/4.98	4.83/10.63
Included accessories	• Power cord • Rack-mount kits	• Power cord • Rack-mount kits	• Power cord • Rack-mount kits	• Power cord • Rack-mount kits	• Power cord • Wall mount kit • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit

Model	Switch 2210 Series			Switch 1920 Series				
	GS2210-24LP	GS2210-48	GS2210-48HP	XS1920-12	GS1920-24	GS1920-24HP	GS1920-48	GS1920-48HP
Switch class	Layer 2	Layer 2	Layer 2	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Hardware								
Total port count	28	50	50	12	28	28	50	50
100 Mbit RJ-45 ports	-	-	-	-	-	-	-	-
100 Mbit RJ-45 PoE ports	-	-	-	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	10	-	-	-	-
1 Gigabit RJ-45 ports	-	44	-	-	24	-	44	-
1 Gigabit RJ-45 PoE ports	24	-	48	-	-	24	-	48
1 Gigabit SFP slots	-	2	2	-	-	-	2	2
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	2	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	4	4	4	-	4	4	4	4
10 Gigabit SFP+ slots	-	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	56	100	100	240	56	56	100	100
Forwarding rate (Mpps)	41.7	74	74	178.6	41.7	41.7	74	74
MAC addresses table	16 K	16 K	16 K	16 K	16 K	16 K	16 K	16 K
Management								
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI/Web GUI	Yes/Yes	Yes/Yes	Yes/Yes	-/Yes	-/Yes	-/Yes	-/Yes	-/Yes
iStacking (single IP management)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Out-of-band management port	-	-	-	-	-	-	-	-
Routing/Redundancy								
OSPF	-	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-	-
Static IP routing	-	-	-	Yes	-	-	-	-
VRRP	-	-	-	-	-	-	-	-
Spanning Tree (STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Redundant power support	-	-	-	-	-	-	-	-
Quality of Service								
Priority queues	8	8	8	8	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	-	-	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security								
MAC freeze/intrusion lock	Yes	Yes	Yes	Yes/-	Yes/-	Yes/-	Yes/-	Yes/-
802.1X authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL security filter L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sflow	-	-	-	-	-	-	-	-
CPU protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Green Features								
Fanless	-	-	-	-	Yes	-	-	-
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others								
MTBF (hr)	616,247	631,451	337,690	839,625	616,247	949,326	631,452	337,690
Heat dissipation (BTU/hr)	864.09	136.8	1,572.01	320.89	88.32	1,548.14	128.90	1,643.62
Physical Specifications								
Dimensions (WxDxH)(mm/in.)	440 x 330 x 44.5/17.32 x 12.99 x 1.75	440 x 200 x 44.5/17.32 x 7.87 x 1.75	440 x 330 x 44.5/17.32 x 12.99 x 1.75	440 x 330 x 44.5/17.32 x 12.99 x 1.75	441 x 131 x 44/17.36 x 5.16 x 1.73	440 x 330 x 44.5/17.32 x 12.99 x 1.75	440 x 200 x 44.5/17.32 x 7.87 x 1.75	440 x 330 x 44.5/17.32 x 12.99 x 1.75
Weight (kg/lb.)	4.40/9.7	3.04/6.7	5.13/11.3	4.205/9.27	2.17/4.78	4.79/10.56	3.04/6.7	5.13/11.3
Included accessories	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit

Model	Switch 1900 Series						
	GS1900-8	GS1900-8HP	GS1900-10HP	GS1900-16	GS1900-24E	GS1900-24	GS1900-24HP
Switch class	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Hardware							
Total port count	8	8	10	16	24	26	26
100 Mbit RJ-45 ports	-	-	-	-	-	-	-
100 Mbit RJ-45 PoE ports	-	-	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	-	-	-	-
1 Gigabit RJ-45 ports	8	-	-	16	24	24	-
1 Gigabit RJ-45 PoE ports	-	8	8	-	-	-	24
1 Gigabit SFP slots	-	-	2	-	-	2	2
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	16	16	20	32	48	52	52
Forwarding rate (Mpps)	11.9	11.9	14.9	23.8	35.7	39	39
MAC addresses table	8 K	8 K	8 K	8 K	8 K	8 K	8 K
Management							
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI/Web GUI	-/Yes	-/Yes	-/Yes	-/Yes	-/Yes	-/Yes	-/Yes
iStacking (single IP management)	-	-	-	-	-	-	-
Out-of-band management port	-	-	-	-	-	-	-
Routing/Redundancy							
OSPF	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-
Static IP routing	-	-	-	-	-	-	-
VRRP	-	-	-	-	-	-	-
Spanning Tree (STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Redundant power support	-	-	-	-	-	-	-
Quality of Service							
Priority queues	8	8	8	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/-/Yes	Yes/-/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	-	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security							
MAC freeze/intrusion lock	-	-	-	-	-	-	-
802.1X authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL security filter L2/L3/L4	-	-	-	-	-	-	-
Sflow	-	-	-	-	-	-	-
CPU protection	-	-	-	-	-	-	-
Green Features							
Fanless	Yes	Yes	Yes	Yes	Yes	Yes	-
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others							
MTBF (hr)	862,561	926,199	801,113	843,668	804,714	432,673	318,142
Heat dissipation (BTU/hr)	2114	48.763	65.47	35.81	51.49	55	787.71
Physical Specifications							
Dimensions (WxDxH)(mm/in.)	250 x 104 x 27/ 9.84 x 4.10 x 1.06	250 x 104 x 27/ 9.84 x 4.10 x 1.06	250 x 104 x 27/ 9.84 x 4.10 x 1.06	216 x 133 x 42/ 8.50 x 5.23 x 1.65	267 x 162 x 42/ 10.51 x 6.37 x 1.65	440 x 131 x 44/ 17.32 x 5.16 x 1.73	440 x 310 x 45/ 17.32 x 12.20 x 1.77
Weight (kg/lb.)	0.65/1.43	0.71/1.57	0.72/1.59	0.97/2.13	1.56/3.44	2.09/4.60	4.03/8.88
Included accessories	- Power adapter - Wall mount kit	- Power cord - Power adapter - Wall mount kit	- Power cord - Power adapter - Wall mount kit	- Power cord - Wall mount kit - Rack mounting kit	- Power cord - Wall mount kit - Rack mounting kit	- Power cord - Rack mounting kit	- Power cord - Rack mounting kit

Model	Switch 1900 Series		Switch 1200 Series		Switch 1100 Series			
	GS1900-48	GS1900-48HP	GS1200-5HP	GS1200-8HP	GS1100-8HP	GS1100-10HP	GS1100-16	GS1100-24
Switch class	Smart Managed	Smart Managed	Web Managed	Web Managed	Unmanaged	Unmanaged	Unmanaged	Unmanaged
Hardware								
Total port count	50	50	5	8	8	10	16	26
100 Mbit RJ-45 ports	-	-	-	-	-	-	-	-
100 Mbit RJ-45 PoE ports	-	-	-	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	-	-	-	-	-
1 Gigabit RJ-45 ports	48	24	1	4	4	-	16	24
1 Gigabit RJ-45 PoE ports	-	24	4	4	4	8	-	-
1 Gigabit SFP slots	2	2	-	-	-	2	-	2
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	100	100	10	16	16	20	32	52
Forwarding rate (Mpps)	74	74	14.88	14.88	11.9	14.9	23.8	38.7
MAC addresses table	8 K	8 K	4k	4k	8 K	8 K	8 K	8 K
Management								
IPv6 management	Yes	Yes	-	-	-	-	-	-
CLI/Web GUI	-/Yes	-/Yes	-/Yes	-/Yes	-	-	-	-
iStacking (single IP management)	-	-	-	-	-	-	-	-
Out-of-band management port	-	-	-	-	-	-	-	-
Routing/Redundancy								
OSPF	-	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-	-
Static IP routing	-	-	-	-	-	-	-	-
VRRP	-	-	-	-	-	-	-	-
Spanning Tree (STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	-	-	-	-	-	-
Redundant power support	-	-	-	-	-	-	-	-
Quality of Service								
Priority queues	8	8	4	4	4	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	-/Yes/-	-/Yes/-	-	-	-	-
Guest VLAN	Yes	Yes	-	-	-	-	-	-
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	-	-	-	-
MVR	Yes	Yes	-	-	-	-	-	-
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	-	-	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security								
MAC freeze/intrusion lock	-	-	-	-	-	-	-	-
802.1X authentication	Yes	Yes	-	-	-	-	-	-
TACACS+/RADIUS	Yes	Yes	-	-	-	-	-	-
ACL security filter L2/L3/L4	-	-	-	-	-	-	-	-
Sflow	-	-	-	-	-	-	-	-
CPU protection	-	-	-	-	-	-	-	-
Green Features								
Fanless	-	-	-	-	Yes	Yes	Yes	Yes
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others								
MTBF (hr)	229,313	175,767	1,393,888	1,297,717	631,254	1,000,070	1,297,212	1,206,050
Heat dissipation (BTU/hr)	108.77	853	132.23	128.16	306.9	89	2762	50.13
Physical Specifications								
Dimensions (WxDxH)(mm/in.)	440 x 200 x 44/ 17.32 x 7.87 x 1.73	440 x 310 x 45/ 17.32 x 12.20 x 1.77	193 x 84 x 26/ 7.59 x 3.3 x 1.02	240 x 105 x 26/ 9.44 x 4.13 x 1.02	210 x 104 x 27/ 8.27 x 4.09 x 1.06	250 x 104 x 27/ 9.84 x 4.10 x 1.06	215 x 133 x 42/ 8.46 x 5.24 x 1.65	441 x 131 x 44/ 17.36 x 5.16 x 1.73
Weight (kg/lb.)	2.9/6.39	4.24/9.35	0.4/0.88	0.65/1.43	0.54/1.19	0.73/1.6	0.92/2.28	1.82/4.01
Included accessories	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord	• Power cord	• Power cord • Power adapter • Wall mount kit	• Power cord • Power adapter • Wall mount kit	• Power cord • Wall mount kit • Rack mounting kit	• Power cord • Rack mounting kit

Model	Switch 1100 Series						Rugged Switch Series	
	GS1100-24E	ES1100-8P	ES1100-16P	ES1100-16	ES1100-24	ES1100-24E	RGS200-12P	RGS100-5P
Switch class	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Managed	Unmanaged
Hardware								
Total port count	24	8	16	16	24	24	12	5
100 Mbit RJ-45 ports	-	4	8	16	24	24	-	-
100 Mbit RJ-45 PoE ports	-	4	8	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	-	-	-	-	-
1 Gigabit RJ-45 ports	24	-	-	-	-	-	-	-
1 Gigabit RJ-45 PoE ports	-	-	-	-	-	-	8	4
1 Gigabit SFP slots	-	-	-	-	-	-	4	1
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	48	1.6	3.2	3.2	4.8	4.8	24	10
Forwarding rate (Mpps)	35.7	1.2	2.4	2.4	3.6	3.6	17.86	7.44
MAC addresses table	8 K	1 K	8 K	8 K	8 K	8 K	8 K	2 K
Management								
IPv6 management	-	-	-	-	-	-	Yes	-
CLI/Web GUI	-	-	-	-	-	-	Yes/Yes	-
iStacking (single IP management)	-	-	-	-	-	-	-	-
Out-of-band management port	-	-	-	-	-	-	-	-
Routing/Redundancy								
OSPF	-	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-	-
Static IP routing	-	-	-	-	-	-	-	-
VRRP	-	-	-	-	-	-	-	-
Spanning Tree (STP/MSTP/RSTP)	-	-	-	-	-	-	Yes/Yes/Yes	-
Redundant power support	-	-	-	-	-	-	Yes	Yes
Quality of Service								
Priority queues	8	4	8	8	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	-	-	-	-	-	-	Yes/Yes/-	-
Guest VLAN	-	-	-	-	-	-	Yes	-
IGMP snooping (v1/v2/v3)	-	-	-	-	-	-	Yes	-
MVR	-	-	-	-	-	-	-	-
Jumbo frame forwarding	Yes	-	-	Yes	Yes	Yes	Yes	-
DVMRP	-	-	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security								
MAC freeze/intrusion lock	-	-	-	-	-	-	-	-
802.1X authentication	-	-	-	-	-	-	Yes	-
TACACS+/RADIUS	-	-	-	-	-	-	Yes	-
ACL security filter L2/L3/L4	-	-	-	-	-	-	-	-
Sflow	-	-	-	-	-	-	-	-
CPU protection	-	-	-	-	-	-	-	-
Green Features								
Fanless	Yes	Yes	-	Yes	Yes	Yes	Yes	Yes
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	-	-
Others								
MTBF (hr)	929,704	164,603	75,888	322,400	295,895	100,833	568,430	568,430
Heat dissipation (BTU/hr)	49.10	232.22	499.57	8.53	13.30	13.30	869.55	426.25
Physical Specifications								
Dimensions (WxDxH)(mm/in.)	267 x 162 x 42/ 10.51 x 6.38 x 1.65	262 x 184 x 41/ 10.31 x 7.24 x 1.61	262 x 184 x 41/ 10.31 x 7.24 x 1.61	216 x 133 x 42/ 8.50 x 5.24 x 1.65	441 x 131 x 44/ 17.36 x 5.16 x 1.73	267 x 162 x 42/ 10.51 x 6.38 x 1.65	77 x 127.3 x 154/ 3.03 x 5.01 x 6.06	29.1 x 107.3 x 139/ 1.15 x 4.22 x 5.47
Weight (kg/lb.)	1.53/3.37	1.4/3.09	1.7/3.75	0.77/1.70	1.35/2.98	1.28/2.82	1.45/3.2	0.5/1.1
Included accessories	- Power cord - Wall mount kit - Rack mounting kit	- Power cord - Wall mount kit - Rack mounting kit	- Power cord - Wall mount kit - Rack mounting kit	- Power cord - Wall mount kit - Rack mounting kit	- Power cord - Rack mounting kit	- Power cord - Wall mount kit - Rack mounting kit	- Wall mount kit - DIN-rail mounting kit	- Wall mount kit - DIN-rail mounting kit

Nebula Cloud Managed Switches

Feature Matrix

Model	Nebula Cloud Managed Switches				
	NSW100-10	NSW100-10P	NSW100-28	NSW100-28P	NSW200-28P
Switch class	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Hardware					
Total port count	10	10	28	28	28
1 Gigabit RJ-45 ports	8	-	24	-	-
1 Gigabit RJ-45 PoE ports	-	8	-	24	24
Gigabit combo ports (RJ-45/SFP)	2	2	4	4	-
10 Gigabit SFP+ slots	-	-	-	-	4
Backplane bandwidth (Gbps)	20	20	56	56	128
Forwarding rate (Mpps)	14.88	14.88	41.67	41.67	95.2
MAC addresses table	16K	16K	16K	16K	16K
Routing/Redundancy					
Spanning tree (STP/RSTP)	Yes	Yes	Yes	Yes	Yes
Quality of Service					
Priority queues	8	8	8	8	8
Data prioritization (WRR)	Yes	Yes	Yes	Yes	Yes
Guest VLAN	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes
802.1p class of service	Yes	Yes	Yes	Yes	Yes
Security					
802.1X authentication	Yes	Yes	Yes	Yes	Yes
ACL security filter L3/L4	Yes	Yes	Yes	Yes	Yes
RADIUS	Yes	Yes	Yes	Yes	Yes
Others					
MTBF (hr)	1,382,030	1,155,719	616,247	949,326	560,726
Heat dissipation (BTU/hr)	41.94	784.30	92.75	1625.55	1,483.40
Physical Specifications					
Item dimensions (WxDxH)(mm/in.)	250 x 150 x 44/ 9.84 x 5.91 x 1.73	330 x 230.5 x 44.5/ 12.99 x 9.07 x 1.75	441 x 131 x 44/ 17.36 x 5.16 x 1.73	440 x 330 x 44.5/ 17.32 x 12.99 x 1.75	440 x 330 x 44.5/ 17.32 x 12.99 x 1.75
Item weight (kg/lb.)	1.34/2.95	2.703/5.96	2.172/4.79	4.79/10.56	5.06/11.16
Included accessories	• Power cord • Wall mount kit • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit
Environmental Specifications					
Operating environment	Temperature	0°C to 50°C/ 32°F to 122°F	0°C to 50°C/ 32°F to 122°F	0°C to 50°C/ 32°F to 122°F	0°C to 50°C/ 32°F to 122°F
	Humidify	10% to 90%	10% to 95% (non-condensing)	10% to 90% (non-condensing)	10% to 95% (non-condensing)
Storage environment	Temperature	-40°C to 70°C/ -40°F to 158°F	-40°C to 70°C/ -40°F to 158°F	-40°C to 70°C/ -40°F to 158°F	-40°C to 70°C/ -40°F to 158°F
	Humidify	10% to 90%	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)

Accessories

Media Converter

Product	MC1000-SFP-FP
	
Specifications	• 1000BASE-T RJ-45 to Gigabit fiber • Fiber protection mechanism • 1 mini-GBIC SFP slot for flexible choice of SFP • Multimode and singlemode supported • Up to 80 km reach (depends on mini-GBIC SFP) • Max. power consumption: 9.6 watt
Dimensions (WxDxH)(mm/in.)	194 x 129 x 25/7.64 x 5.08 x 0.98

PoE Injector and Extender

Product	PoE12-HP
	
Specifications	• Install anywhere taking advantage of PoE technology • Simple installation for IEEE 802.3at compatible wireless LAN APs or IP video cameras • Up to 100 m coverage via CAT-5 Ethernet cable
Dimensions (WxDxH)(mm/in.)	207 x 65 x 38.5/8.15 x 2.56 x 1.52

Power Module

Product	RPS300	RPS600-HP
 		
Specifications	• Removable AC power module for GS3700-24, GS3700-48, XGS3700-24, XGS3700-48, XS3700-24 • Requires 100 V AC to 240 V AC, 5.0 A power	• Removable AC power module for GS3700-24HP, GS3700-48HP, XGS3700-24HP, XGS3700-48HP • Requires 100 V AC to 240 V AC, 8.0 A power

Cable Series

Direct Attached Cable 10G Series	DAC10G	
	DAC10G-1M	DAC10G-3M
 		
Connector	SFP+ to SFP+	SFP+ to SFP+
Max. Transmission Distance (m/ft)	1/3.28	3/9.84
Operational Ranges		
Supply voltage	3.13 - 3.47 V	3.13 - 3.47 V
Max. current	480 mA	480 mA

Transceiver Series

Transceiver Class	10 Gigabit SFP+	
	SFP10G-SR	SFP10G-LR



Features

- Industry standards compliant
- SFP MSA (Multi-Source Agreement) compliant
- Hot-pluggable with maximum flexibility
- Compact size, high port density
- Low power dissipation
- Support DDMI (Digital Diagnostics Monitoring Interface) features

Specifications

Connector	Duplex LC	Duplex LC
Wavelength	850 nm	1310 nm
Max Transmission Distance	0.3 km/328 yd	10 km/10936 yd
Support DDMI Features	Yes	Yes
Optical Fiber Type	Multiple Mode	Single Mode

Transceiver Class	Gigabit SFP						
	SFP-1000T	SFP-SX-D	SFP-LX-10-D	SFP-BX1310-10-D*	SFP-BX1490-10-D*	SFP-LHX1310-40-D	SFP-ZX-80-D



Features

- Industry standards compliant
- SFP MSA (Multi-Source Agreement) compliant
- Hot-pluggable with maximum flexibility
- Compact size, high port density
- Low power dissipation

Specifications

Connector	RJ-45	LC	LC	LC	LC	LC	LC
Wavelength	-	850 nm	1310 nm	1310 nm (TX) 1490 nm (RX)	1490 nm (TX) 1310 nm (RX)	1310 nm	1550 nm
Max Transmission Distance	0.1 km/ 109 yd	0.55 km/ 601 yd	10 km/ 10936 yd	10 km/ 10936 yd	10 km/ 10936 yd	40 km/ 43744 yd	80 km/ 87488 yd
Support DDMI Features	-	Yes	Yes	Yes	Yes	Yes	Yes
Optical Fiber Type	Multiple Mode	Multiple Mode	Single Mode	Single Mode	Single Mode	Single Mode	Single Mode

*1: SFP-BX1310-10-D and SFP-BX1490-10-D are pair used.



Your Networking Ally

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