

ZYXEL

Your Networking Ally

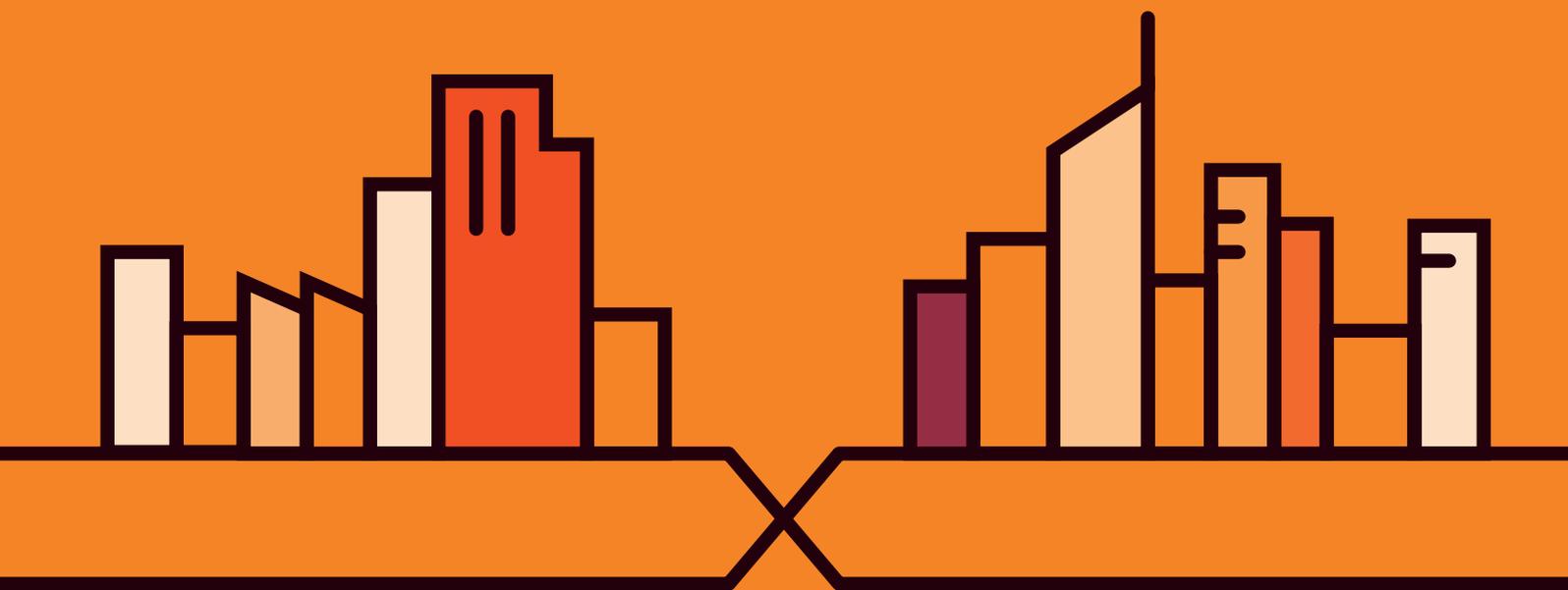


Grow with Your Business

Business Networking
Product Guide

- Wireless LAN
- Switch
- Security
- Gateway
- Network Management
- Cloud Networking & Management

**We help you
build the future
of your business**



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Experience a true one network like no others

The reality of today's business networks is that different product lines lack consistency and integration. It's not uncommon in the industry that equipment brands just acquire new technologies they lack for shorter time-to-market; as a result, products under One brand might have totally different graphic or command line interfaces, or similar features that perform differently. Zyxel addresses this problem and aims to take business networking to new heights with introduction of Zyxel One Network.

With the vision to help the world connect, Zyxel presents comprehensive businesses networking solutions from switches to Wireless LANs, security appliances and gateways. The robust, reliable networking equipment from Zyxel—one of the few companies that possess all key technologies for all business networking product lines—enables us to fully integrate switches, wireless APs and gateways in an innovative way. With this capability, Zyxel offers a truly integrated One Network experience from LAN to WLAN and the gateway.

Smart WLAN Solutions

Addressing the very needs of the customers

- Bulk APs installation, configuration, management and monitoring
- Reducing support effort and service calls
- High-performance, robust AP offerings

Fit SMB/SME, Education and Hospitality venues as well as Public Hotspots

Self-developed WLAN controller to realize zero-configuration, centralized management and flexible deployments

Rich AP lineup

- Unified AP series to support thin/fat dual modes
- Comprehensive form factors, adaptive to environment needs

Free utility for easy installation

- Zyxel Wireless Optimizer
- Zyxel AP Configurator

Comprehensive Switching Solutions

Complete line-up

- Ranging from unmanaged to full managed switches
- Comprehensive PoE offerings for WLAN and surveillance
- Covering port speed from FE and GbE to 10GbE, fiber and copper

Zyxel switches all come with self-developed, purpose-built operating system

- Drive-optimized switching performance
- Fast response to market needs
- Highly secured software platform

Secure, Optimized Business Services

Best value for small/medium businesses

- Ranked No.1 in SOHO/small business segment
- UTM featuring omnidirectional protections to secure SMB data and intellectual properties
- Application intelligence to prevent resource abuse

Ultra-high performance

- Implemented with advanced platforms to achieve the best performance for businesses

Leading VPN technologies

- VPN tunnel with leading SHA-2 encryption for superior, secure communications

Built-in WLAN controller

- Centralized WLAN management enabled to commit best CAPEX and OPEX

Mobile broadband access

- 3G broadband access fail-over to ensure business services

Zyxel One Network

Zyxel One Network is the easiest, most efficient network setup and management for businesses with three key components:

Zyxel One Network Utility (ZON Utility) is an easy-to-use tool to realize speed network setup.



ZON Utility

Zyxel Smart Connect allows Zyxel networking equipment to be aware and recognize each other and further facilitating the network maintenance via one-click remote functions such as factory reset or power cycling.



Neighbor Device Discovery



Power Cycle



Reset to Default



Web GUI Redirection

AP Controller Technology is integrated into Zyxel commercial gateway ranges to benefit businesses when building or expanding the Wi-Fi network with centralized provisioning.



Integrated WLAN Controller

The Zyxel One Network values we deliver:

- Accelerate initial network deployment, and deployment of new hardware for expansion
- Eliminate the burden of repetitive network management tasks
- Support a flexible agile infrastructure that can respond quickly to business needs
- Streamline and simplify troubleshooting, preventing network related interruptions to business operations
- Eliminate the need for expensive and costly network management platforms
- Drive down the total cost of ownership of the network
- Support new working practices with a scalable and flexible network that can rapidly respond to change



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NXC5500

Wireless LAN Controller

RESET

10/100/1000
P1 P2 P3 P4 P5 P6

1
2
USB

PIVE

WLAN APs & Controllers

- 12 Wireless LAN Controllers
- 13 Wireless LAN Access Points
- 17 Accessories



WLAN Quick Finder

Features/
Scalability

SNMP Management



NWA1100-NH



NWA1123-ACv2



NWA1123-AC

Standalone AP Series

WLAN Management



NWA5301-NJ



NWA5123-AC



NWA5121-NI



NWA5121-N

Unified AP Series

Business
Scale

Small

WLAN Management



WAC6103D-I



WAC6502D-E



WAC6503D-S
WAC6502D-S



WAC6553D-E

Unified Pro AP Series

User and Application Management



NXC5500



NXC2500

NXC Controller

Large

Zyxel wireless LAN solutions

Optimized for BYOD

More and more people are using personally-owned Wi-Fi enabled devices such as smartphones, tablets and laptops in the workplace. This BYOD (Bring Your Own Device) trend has brought many new challenges to the stability, capacity and security of business wireless networks. Businesses need a BYOD-ready WLAN solution to address the new security challenges and satisfy the increased demand for wireless access.

Not limited to business environments, a booming evolution in the education sector has tablets widely adopted and deployed as digital textbooks that brings many challenges to the existing Wi-Fi infrastructures.

Addressing these challenges, Zyxel presents its Smart WLAN Solutions designed to meet the immediate needs of customers. The Smart WLAN Solution improves large-scale AP installation, configuration, management and monitoring while reducing support effort and service calls by its high-performance, robust AP lineup. On the other hand, the Smart WLAN Solution also has the WLAN controller portfolio reinforced not only by refreshing the WLAN controller products, but also by integrating the controller functions across the unified security gateway and unified access

High Deployment Flexibility, Unmatched Performance

Zyxel's comprehensive WLAN AP portfolio with stand-alone, unified and unified pro AP can satisfy every need in every environment. The ceiling-mount, wall-plate and even outdoor form factors of Zyxel access points also offers the best Wi-Fi extension and coverage. Designed with the latest wireless technologies, Zyxel WLAN access points provide the speed, coverage and capacity needed for a new generation of Wi-Fi devices and applications. With the next-generation 802.11ac standard, Zyxel's APs achieve Gigabit wireless speeds—3 times the speed of 802.11n—for faster, more reliable wireless connectivity. Dual-radio and dual-band models adopt 5 GHz technology to solve the capacity and signal interference problems of crowded 2.4 GHz Wi-Fi environment offers the best Wi-Fi extension and coverage.

Standalone APs

Perfect for small WLAN deployments, the Zyxel NWA1000 Series standalone APs are fast, easy to set up and extremely cost-effective. Low-profile ceiling-mount and in-wall designs are also available for unobtrusive deployments.

Unified APs

With a 2-in-1 standalone/managed design, Zyxel Unified APs provide high flexibility for WLAN deployments. Users can start using it as a standalone AP, then convert it to a controller-managed AP when Wi-Fi demand grows. The growing business can painlessly scale up to 512 APs with the NXC5500 WLAN Controller.

Unified Pro APs

Featuring latest 802.11ac technology, Zyxel WAC6500 and WAC6100 Series also provide innovative smart antenna and dual-optimized antenna technology respectively with superior Gigabit Wi-Fi performance for different deployment requirements.

Worry-free WLAN Management

Zyxel offers a series of Wireless LAN Controllers that fulfill the different needs from small business to large enterprises and campuses. The Zyxel NXC Series WLAN Controllers feature advanced WLAN management features, flexible traffic forwarding modes, and comprehensive guest management features to get businesses and organizations ready for the era of BYOD.

Making Wi-Fi Easier

To facilitate quickly, easy Wi-Fi planning, deployment and configuration, Zyxel introduces free utilities to relieve customers from such headaches.

Zyxel Wireless Optimizer

A practical, effective and easy-to-use tool that assist you on tasks ranging from planning wireless networks to monitoring network performance.

Zyxel AP Configurator

Profile-based bulk configuration editing and application across all ranges of Zyxel WLAN access points.



NXC5500/NXC2500

Wireless LAN Controller



- Centralized WLAN management and auto provisioning
- ZyMesh simplifies complex, inconvenient cabling Wi-Fi Deployments
- Flexible traffic forwarding with tunnel and distributed modes
- Comprehensive internet guest account generator
- Support of multiple authentication methods



NXC5500

6 x GbE RJ-45 ports, 2 x USB ports



NXC2500

6 GbE ports with RJ-45, 2 x USB ports

Specifications

Network interfaces	6 x auto-negotiating 10/100/1000BASE-T RJ-45 ports, 2 x USB ports	Authentication	IEEE 802.1x, Microsoft AD, LDAP, MAC authentication, embedded RADIUS server, customizable captive portal, external captive portal, guest account (dynamic)
Managed AP support	NXC5500 Supports 64 WLAN APs by default, and up to 512 WLAN APs with license upgrade NXC2500 Supports 8 WLAN APs by default, and up to 64 WLAN APs with license upgrade	Networking functions	VLAN, DHCP client/server/relay, NAT, static routing, policy routing
WLAN management	ZyMesh with multiple SSIDs and VLANs, auto healing, CAPWAP for WLAN AP auto discovery and provisioning, dynamic channel selection, client RSSI threshold, AP load balancing, primary and secondary controller for redundancy, band steering Rogue AP detection, rogue AP containment	Management features	CLI with SSH, Web UI with SSL, SNMP v1/v2c/v3, management VLAN, system log
		Managed AP scalability license	This license increases the number of AP that NXC5500/NXC2500 can support. Up to 512 APs (NXC5500) Up to 64 APs (NXC2500)
		ZyMesh license	This license enables the Zyxel function on NXC5500/NXC2500

WAC6500 Series

802.11ac Dual-Radio Unified Pro Access Point



- Zyxel smart antenna provides enhanced performance anywhere
- Advanced IEEE 802.11ac delivers up to 1.75 Gbps combined data rates
- Industry-leading Rx sensitivity as low as -102 dBm
- APFlex™, DCS and tool-less bracket design streamline deployment



WAC6503D-S
802.11ac Dual Radio Smart Antenna 3x3 Access Point



WAC6502D-E
802.11ac Dual Radio External Antenna 2x2 Access Point



WAC6502D-S
802.11ac Dual Radio Smart Antenna 2x2 Access Point



WAC6553D-E
802.11ac Dual Radio External Antenna 3x3 Outdoor Access Point

Specifications

Network interfaces	2 x 10/100/1000BASE-T full duplex RJ-45	Management	Web GUI, CLI, SNMP v3
Data transfer/data throughput	1.75 Gbps combined rates (WAC6503D-S, WAC6553D-E) 1.2 Gbps combined rates (WAC6502D-S, WAC6502D-E)	Special features	IPv6, plenum rating, standalone AP mode, layer-2 isolation, dual-radio 2.4 GHz & 5 GHz
WLAN functions	Up to 16 multi SSID/VLAN	PoE power draw	17.04 W (WAC6503D-S) 15.12 W (WAC6502D-S, WAC6502D-E)
Security	WEP 64/128 bit, WPA PSK/WPA2 PSK, WLAN access control	Power supply	DC input: 12 V DC 2 A PoE: 802.3at compliant

WAC6103D-I

802.11ac Dual-Radio Dual-Optimized Antenna 3x3 Access Point



- Enterprise class 3x3 802.11ac AP supports combined data rates of up to 1.75 Gbps
- “Dual-optimized antenna” allows pattern optimization adapting to wall- or ceiling-mount installations
- Stylish, ultra-slim ID design as the 32 mm height blends perfectly into modern interior decorations
- APFlex™ and Zyxel one network utilities make deployment simple and fast
- Dynamic channel selection, load balancing and smart client steering ensure optimal wireless experience



WAC6103D-I

802.11ac Dual Radio Dual-optimized Antenna 3x3 Access Point

Specifications

Network interfaces	2 x 10/100/1000BASE-T full duplex RJ-45	Management	Web GUI, CLI, SNMP v3
Data transfer/ data throughput	1.75 Gbps combined rates	Special features	IPv6, plenum rating, standalone AP mode, layer-2 isolation, dual-radio 2.4 GHz & 5 GHz
WLAN functions	Up to 16 multi SSID/VLAN	PoE power draw	12.48 W
Security	WEP 64/128 bit, WPA PSK/WPA2 PSK, WLAN access control	Power supply	PoE: 802.3at compliant

NWA5120 Series

802.11n/ac Unified Access Point



NWA5123-AC
802.11ac Dual-Radio
Unified Access Point



NWA5121-NI
802.11n Unified
Access Point



NWA5121-N
802.11n Unified
Access Point

Specifications

Network interfaces	1 x 10/100/1000 Mbit BASE-T, auto-sensing LAN port
WLAN standard	IEEE 802.11 a/g/n, 2.4 GHz (NWA5121-NI, NWA5121-N) IEEE 802.11 a/b/g/n/ac, 2.4/5 GHz concurrent (NWA5123-AC)
Data throughput	300 Mbps (NWA5121-NI, NWA5121-N) 1200 Mbps (NWA5123-AC)

- Ceiling and wall mountable
- Plenum rated housing
- 2-in-1 standalone/managed AP design
- CAPWAP management supported
- Enterprise class 2x2 802.11ac AP supports combined data rates of up to 1200 Mbps (NWA5123-AC)
- APFlex™ and Zyxel one network utilities make deployment simple and fast

Operating modes	Managed/standalone AP
WLAN functions	VLAN (virtual WLANs), pre-defined VoIP/guest SSID
Security	WEP, WPA/WPA2-PSK, WPA/WPA2-enterprise
Special features	Layer 2 isolation, Rogue AP detection, CLI, plenum rating

NWA5301-NJ

802.11n Wall-Plate Unified Access Point



1 x 10/100 uplink PoE PD port,
1 x 8P4C RJ-48 phone pass-through



1 x 10/100 Mbps RJ-45 PoE PSE port,
2 x 10/100 Mbps RJ-45 port, 1 x 8P4C RJ-48 phone pass-through

Specifications

Network interfaces	2 x 10/100 PoE port (yellow); 2 x 10/100 port (black); 2 x 8P4C phone pass-through (gray)
WLAN standard	802.11 b/g/n
Data transfer/data throughput	300 Mbps, up to 90 Mbps (Limited by 10/100 uplink)
Operating modes	Managed/standalone AP, web GUI, SNMP
WLAN functions	Multiple SSID

- Unique back panel design that fits the majority of outlet boxes in the world
- 2.4 GHz 802.11n technology providing data rates of up to 300 Mbps
- High-gain antenna that optimizes Wi-Fi services for mobile devices
- LED suppress mode for comfortable room services

PoE power draw	13 W
Max. transmit power	FCC 2.4 GHz, 23 dBm, 2 antennas BSTI 2.4 GHz, 17 dBm, 2 antennas
Security	WEP/WPA/WPA2, enterprise WPA/WPA2, WLAN ACL, 802.1x security (EAP-TLS, TTLS, PEAP, SIM, -FAST, -AKA)
Power supply	Powered by PoE IEEE 802.3af/at PoE

NWA1120 Series

802.11n/ac Ceiling Mount PoE Access Point



- Compact ceiling-mount design with optimized RF performance
- High performance for better Wi-Fi experiences
- Easy RF planning with the same 2.4 GHz and 5 GHz signal coverage
- Flexible operating modes



NWA1123-ACv2
802.11ac Dual-Radio
Ceiling Mount PoE
Access Point



NWA1123-AC
802.11ac Dual-Radio
Ceiling Mount PoE
Access Point

Specifications

Network interfaces	1 x 10/100/1000BASE-T full duplex RJ-45
Data transfer/ data throughput	1200 Mbps combined rates
WLAN functions	Up to 16 multi SSID/VLAN
Security	WEP 64/128 bit, WPA PSK/WPA2 PSK, WLAN access control

Management	Web GUI, Telnet, SNMP v3
Special features	IPv6, plenum rating, standalone AP mode, layer-2 isolation, dual-radio 2.4 GHz & 5 GHz
Power supply	Input: AC 100 - 240 V - 50/60 Hz 0.3 A Output: DC +12 V 1 A

NWA1100-NH

802.11n Long Range PoE Access Point



- High output power of up to 28 dBm delivers extended coverage
- 2 external antennas with high 5 dBi gain optimized for mobile devices
- Easy deployment via client mode or repeater AP and IEEE 802.3af PoE support
- ZON Utility and ZAC minimize repetitive configuration processes and efforts

Specifications

Network interfaces	1 x 10/100/1000BASE-T full duplex RJ-45
WLAN standard	IEEE 802.11 b/g/n
Data transfer/ data throughput	300 Mbps/up to 110 Mbps per radio
Operation modes	Multiple SSID, client mode, root AP, and repeater AP

WLAN functions	Multiple 8 SSIDs
Security	Wireless L2-isolation WEP/WPA/WPA2, enterprise WPA/WPA2, WLAN ACL, 802.1x security
Management	Web GUI, SNMP v3
Power supply	External power adapter 12 V DC/1 A, PoE power draw 6 W

Antenna Series

For Indoors and Outdoors

Model	EXT-108	EXT-109	EXT-114	EXT-118
Product photo				
Space	Outdoor	Outdoor	Outdoor	Outdoor
Type	Omni, 1 port	Directional, 1 port	Directional, 1 port	Directional, 1 port
Frequency band (MHz)	2400 - 2500	2400 - 2500	2400 - 2500	2400 - 2500
Gain	8 dBi	8.5 dBi	14 dBi	18 dBi
VSWR	2.0:1 Max.	1.5:1 Max.	1.5:1 Max.	1.5:1 Max.
Polarization	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical
HPBW/ Horizontal	● 360°	▼ 65°	▼ 30°	▼ 15°
HPBW/ Vertical	► 15°	► 60°	► 30°	► 15°
Connector	N type jack	N type jack	N type jack	N type jack
Temperature	-40°C to 80°C/-40°F to 176°F	-40°C to 80°C/-40°F to 176°F	-40°C to 80°C/-40°F to 176°F	-40°C to 80°C/-40°F to 176°F
Weight (g/lb.)	340/0.75	107/0.24	407/0.90	1,600/3.53
Dimensions (mm/in.)	80 x 78 x 520/ 3.15 x 3.07 x 20.47	114 x 114 x 40/ 4.49 x 4.49 x 1.57	200 x 200 x 50/ 7.87 x 7.87 x 1.97	360 x 360 x 16/ 14.17 x 14.17 x 0.63
Accessory kit	<ul style="list-style-type: none"> • Screw kit • N-plug adapter • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Cable: N-plug, RP-SMA plug; 3 m • Mounting plate • Quick installation guide 	<ul style="list-style-type: none"> • Cable: N-plug, RP-SMA plug; 3 m • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Cable: N-plug, RP-SMA plug; 3 m • Mounting set • Quick installation guide

Model	ANT2206		ANT2105		ANT3108	ANT3218
Product photo						
Space	Indoor		Outdoor		Outdoor	Outdoor
Type	Directional, 1 port		Omni, 1 port		Omni, 1 port	Directional, 1 port
Frequency band (MHz)	2400 - 2500	4900 - 5875	2400 - 2483	5150 - 5875	5150 - 5875	5150 - 5875
Gain	6 dBi	8 dBi	4.5 dBi	7 dBi	8 dBi	18 dBi
VSWR	2.0:1 Max.	2.0:1 Max.	2.0:1 Max.	2.0:1 Max.	2.0:1 Max.	2.0:1 Max.
Polarization	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical	Linear, vertical
HPBW/ Horizontal	▼ 65°	▼ 50°	● 360°	● 360°	● 360°	▼ 15.5°
HPBW/ Vertical	► 75°	► 50°	► 30°	► 15°	► 20°	► 15.5°
Connector	RP-SMA plug		N type plug		N type jack	N type jack
Temperature	-10°C to 55°C/14°F to 131°F		-10°C to 70°C/14°F to 158°F		-40°C to 80°C/-40°F to 176°F	-40°C to 80°C/-40°F to 176°F
Weight (g/lb.)	110/0.24		70/0.15		206/0.46	700/1.54
Dimensions (mm/in.)	76 x 86 x 118/ 2.99 x 3.39 x 4.65		ø22 x 183		ø20 x 260	210 x 210 x 73/ 8.27 x 8.27 x 2.87
Accessory kit	<ul style="list-style-type: none"> • Screw kit • Quick installation guide 		-		<ul style="list-style-type: none"> • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide

Antenna Series

For Indoors and Outdoors

Model	ANT1310	ANT1313	ANT1314	ANT1315	ANT3315
Product photo					
Space	Indoor	Outdoor	Outdoor	Outdoor	Outdoor
Type	Directional, 2x2	Directional, 2x2	Sector, 2x2	Directional, 3x3	Sector, 2x2
Frequency band (MHz)	2300 - 2700	2400 - 2500	2400 - 2500	2400 - 2500	5150 - 5875
Gain	9 - 10 dBi	13 - 13.5 dBi	14 ±0.5 dBi	Port 1 14.5 - 15	15 ±0.5 dBi
VSWR	1.5:1 Max.	2.0:1 Max.	2.0:1 Max.	2.0:1 Max.	2.0:1 Max.
Polarization	Linear/Horizontal	Cross polarization ±45°	Linear, ±45°	Linear, cross polarization	Linear, ±45°
HPBW/ Horizontal	51°	33°	60°	39° - 48°	60°
HPBW/ Vertical	66°	35°	13°	19° - 20°	8°
Side lobes level	-14 dB Max.	-13 dB Max.	-	-10 dB Max.	-5 dB Max.
Front to back ratio	-13 dB Max.	-25 dB Max.	-25 dB Max.	-19 dB Max.	-30 dB Max.
Connector	SMA jack x 2	N type jack x 2	N type jack x 2	N type jack x 3	N type jack x 2
Temperature	-10°C to 55°C/ 14°F to 131°F	-40°C to 80°C/ -40°F to 176°F	-40°C to 80°C/ -40°F to 176°F	-40°C to 80°C/ -40°F to 176°F	-40°C to 80°C/ -40°F to 176°F
Weight (g/lb.)	130/0.29	800/1.76	800/1.76	1140/2.51	1.4/3.09
Dimensions (mm/in.)	ø133 x 42/ ø5.24 x 1.65	210 x 210 x 73/ 8.27 x 8.27 x 2.87	560 x 120 x 145/ 22.04 x 4.72 x 5.71	320 x 320 x 43/ 12.60 x 12.60 x 1.69	560 x 120 x 145/ 22.04 x 4.72 x 5.71
Accessory kit	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide

Model	ANT3316	ANT3320
Product photo		
Space	Outdoor	Outdoor
Space	Directional, 2x2	Directional, 3x3
Frequency band (MHz)	5150 - 5875	5150 - 5875
Gain	15 - 16 dBi	Port 1 20±1
VSWR	2.0:1 Max.	2.0:1 Max.
Polarization	Linear, ±90°	Linear, cross polarization
HPBW/ Horizontal	19°	17°
HPBW/ Vertical	21°	8°
Side lobes level	-	-10 dB Max.
Front to back ratio	-20 dB Max.	-35 dB Max.
Connector	N type jack x 2	N type jack x 3
Temperature	-40°C to 80°C/ -40°F to 176°F	-40°C to 80°C/ -40°F to 176°F
Weight (g/lb.)	800/1.76	2500/5.51
Dimensions (mm/in.)	210 x 210 x 73/ 8.27 x 8.27 x 2.87	371 x 371 x 165/ 14.61 x 14.61 x 6.50
Accessory kit	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide 	<ul style="list-style-type: none"> • Mounting kit • Quick installation guide

Cable Series

Product	LMR 200-N	LMR 400-N	EXT-300
Product Photo			
Description	RP-SMA plug to N-plug Cable length: 3 m, 9 m	N-plug to N-plug Cable length: 1 m, 9 m	RP-SMA plug, N-jack (Jumper Cable)/N-plug, N-jack (Surge Arrester): 0.5 m

Model	NXC Controller	
	NXC5500	NXC2500
Port Density		
10/100/1000 Mbps RJ-45 ports	6	6
USB	2	2
Capacity & Performance		
Managed APs (default/max.)	64/512	8/64
Throughput (Gbps)	6	1
Deployment Tools		
AP planning	-	Yes
Coverage detection	-	Yes
WLAN quality map	-	Yes
WLAN Management		
CAPWAP	Yes	Yes
Controller address assignment	Manual/Auto discovery/DHCP option/DNS	Manual/Auto discovery/DHCP option/DNS
Auto provisioning	Yes	Yes
NAT pass-through	Yes	Yes
Encrypted managed frame (DTLS)	Yes	Yes
Primary/Backup controller	Yes	Yes
Manged AP firmware auto upgrade	Yes	Yes
Scheduled firmware upgrade	Yes	Yes
Dynamic channel selection	Yes	Yes
Client RSSI threshold	Yes	Yes
Wireless multicst setting	Yes	Yes
ZyMesh*	Yes	Yes
ZyMesh with multiple SSIDs and VLANs	Yes	Yes
Auto healing	Yes	Yes
Fast roaming	Pre-authentication and PMK caching	Pre-authentication and PMK caching
Authentication & Security		
Authentication protocol	802.1x, MS AD, LDAP	802.1x, MS AD, LDAP
MAC authentication	Yes	Yes
Embedded RADIUS server	Yes (4,096 users)	Yes (512 users)
Rogue AP detection	Yes	Yes
Rogue AP containment	Yes	Yes
Customizable captive portal	Yes	Yes
External captive portal	Yes	Yes
Guest account (dynamic)	Yes (1,024)	Yes (512)
L2 isolation	Yes	Yes
Network Features		
VLAN	Yes (512)	Yes (256)
DHCP client/server/relay	Yes/Yes/Yes	Yes/Yes/Yes
NAT	Yes	Yes
Static routing	Yes	Yes
Policy routing	Yes	Yes
Firewall	Yes	Yes
QoS		
WMM power save	Yes	Yes
Diffserv marking	Yes	Yes
AP load balancing	Yes	Yes
Rate limiting (firewall)	Yes	Yes
Station bandwidth limit (per SSID)	Yes	Yes
Data tunneling	Yes (up to 64 APs suggested)	Yes (up to 16 APs suggested)
Management Features		
CLI with SSH	Yes	Yes
Web UI with SSL	Yes	Yes
SNMP	v1, v2c, v3	v1, v2c, v3
Multi-level administration roles	Yes	Yes
Remote configuration and management	Yes	Yes
Management VLAN	Yes	Yes
System log	Yes	Yes
System log save to USB drive	Yes	Yes
Others		
Packet capture	Yes	Yes
High availability	Primay/Seconday controller	Primay/Seconday controller
2nd controller configuration	Yes	Yes
System diagnostic tool	Yes	Yes
Band select (steering)	Yes	Yes
IPv6 host	Yes	Yes
Power supply	270 W ATX SPS; Input: 100 - 240 V @50 - 60 Hz	12 V DC, 100 - 240 V AC
MTBF (hr)	55,555	815,464
Heat dissipation (BTU/hr)	467	64.83
Physical Specifications		
Dimensions (WxDxH)(mm/in.)	520 x 435 x 42/20.47 x 17.13 x 1.65	242 x 175 x 35.5/9.53 x 6.89 x 1.38
Weight (g/lb.)	5,350/11.79	805/1.77
Included accessories	<ul style="list-style-type: none"> • Ethernet cable • Console cable • Power cord • Rack mounting kit 	<ul style="list-style-type: none"> • Power adapter • Rack mounting kit

*: ZyMesh can be enabled with a license upgrade. Without a license, 1 root AP is supported as a trial

Model	Unified Pro AP Series					Wall-Plate AP
	WAC6503D-S	WAC6502D-S	WAC6502D-E	WAC6553D-E	WAC6103D-I	NWA5301-NJ
Product description	802.11ac Dual-Radio Smart Antenna 3x3 Access Point	802.11ac Dual-Radio Smart Antenna 2x2 Access Point	802.11ac Dual-Radio External Antenna 2x2 Access Point	802.11ac Dual-Radio External Antenna 3x3 Outdoor Access Point	802.11ac Dual-Radio Dual-Optimized Antenna 3x3 Access Point	802.11n Wall-Plate Unified Access Point
Basic Design						
Wireless frequency	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 GHz
Radio	2	2	2	2	2	1
RF Specifications						
Number of antenna	6 embedded smart antenna	4 embedded smart antenna	4 external	6 N-type connectors**	6 internal dual-optimized antenna	2 embedded
Antenna gain	4 dBi @2.4 GHz 6 dBi @5 GHz	4 dBi @2.4 GHz 6 dBi @5 GHz	5 dBi @2.4 GHz 7 dBi @5 GHz	4.5 dBi @2.4 GHz 7 dBi @5 GHz	Ceiling: 3 dBi @2.4 GHz 4 dBi @5 GHz Wall: 4 dBi @2.4 GHz 5 dBi @5 GHz	5 dBi
LAN						
Number of 10/100M LAN	-	-	-	-	-	Uplink:1 Downlink: 3
Number of 10/100/1000M LAN	2	2	2	1	2	-
PoE	Yes	Yes	Yes	Yes	Yes	Yes
PoE power draw (watt)	17.04	15.12	15.12	25	12.48	13 (Include 7 W for PoE PSE)
WLAN Features						
WLAN maximum net throughput	Up to 900 Mbps	Up to 600 Mbps	Up to 600 Mbps	Up to 900 Mbps	Up to 900 Mbps	Up to 90 Mbps (Limited by 10/100 uplink)
Mesh AP (By license)	Yes (V4.21)	Yes (V4.21)	Yes (V4.21)	Yes (V4.21)	Yes (V4.21)	Yes (V4.1)
Mesh AP for multiple SSID with VLAN	Yes (V4.21)	Yes (V4.21)	Yes (V4.21)	Yes (V4.21)	Yes (V4.21)	-
Fast roaming	Pre-authentication and PMK caching	Pre-authentication and PMK caching	Pre-authentication and PMK caching	Pre-authentication and PMK caching	Pre-authentication and PMK caching	Pre-authentication and PMK caching
Wireless Security						
WPA/WPA2-PSK	Yes	Yes	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise	Yes	Yes	Yes	Yes	Yes	Yes
WMM (Wi-Fi Certified)	Yes	Yes	Yes	Yes	Yes	Yes
EAP types	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM				TLS, TTLS, PEAP, FAST, AKA and SIM	
IEEE 802.1X	Yes	Yes	Yes	Yes	Yes	Yes
Number of SSID	16	16	16	16	16	8
Web authentication	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
MAC filtering	Yes	Yes	Yes	Yes	Yes	Yes
Layer-2 isolation	Yes	Yes	Yes	Yes	Yes	Yes, multiple profile
RADIUS authentication	Yes	Yes	Yes	Yes	Yes	Yes
Microsoft AD authentication	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
LDAP authentication	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
MAC authentication	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
Embedded RADIUS server	-	-	-	-	-	-
Rogue AP detection	Yes	Yes	Yes	Yes	Yes	Yes
Rogue AP containment	Yes	Yes	Yes	Yes	Yes	Yes (V4.1)
Firewall	Yes*	Yes*	Yes*	Yes*	Yes*	Yes*
Network						
IPv6 host	Yes	Yes	Yes	Yes	Yes	Yes (V4.1)
VLANs	Yes	Yes	Yes	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes	Yes	Yes	Yes
Management						
Standalone AP mode	Yes	Yes	Yes	Yes	Yes	Yes
Managed AP mode	Yes	Yes	Yes	Yes	Yes	Yes
Web UI/CLI	Yes	Yes	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes	Yes	Yes
Others						
Plenum rating	Yes	Yes	Yes	Yes	Yes	-
Power supply	DC input: 12 VDC 2 A; PoE: 802.3at compliant			PoE only: 802.3at compliant	PoE12-HP	-
MTBF (hr)	1,202,489	1,407,374	1,427,755	562,413	1,005,235	531,785
Heat dissipation (BTU/hr)	56.6	48.17	48.17	85.3	42.58	17.709
Physical Specifications						
Dimensions (WxDxH) (mm/in.)	236 x 227 x 62/ 9.28 x 8.95 x 2.43	236 x 227 x 62/ 9.28 x 8.95 x 2.43	236 x 227 x 62/ 9.28 x 8.95 x 2.43	255 x 256 x 62/ 10.04 x 10.08 x 2.44	203.9 x 191.7 x 34.7/ 8.03 x 7.55 x 1.37	85 x 138 x 37.4/ 3.35 x 5.43 x 1.47
Weight (g/lb.)	982/2.17	961/2.12	841/1.86	1,708/3.77	445/0.98	172/0.379
Included accessories	• Ceiling mount plate • Mounting screws	• Ceiling mount plate • Mounting screws	• External antenna • Ceiling mount plate • Mounting screws	• Pole/wall mounting kits • PoE injector • Power cord	• Wall/ceiling mount plate	• Wall/ceiling mount plate

*: Supported when working with the NXC2500 and NXC5500

** : The antenna is not embedded and external antennas are separately sold

Model	Unified AP Series			Standalone AP Series		
	NWA5123-AC	NWA5121-N	NWA5121-NI	NWA1123-ACv2	NWA1123-AC	NWA1100-NH
Product description	802.11ac Dual-Radio Unified Access Point	802.11n Unified Access Point	802.11n Unified Access Point	802.11ac Dual-Radio Ceiling Mount PoE Access Point	802.11ac Dual-Radio Ceiling Mount PoE Access Point	802.11n Long Range PoE Access Point
Basic Design						
Wireless frequency	2.4 and 5 GHz	2.4 GHz	2.4 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 GHz
Radio	2	1	1	2	2	1
RF Specifications						
Number of antenna	4 embedded	2 external	2 embedded	2T2R MIMO	4 embedded	2T2R MIMO
Antenna gain	3 dBi @2.4 GHz 4 dBi @5 GHz	3 dBi	7 dBi	3 dBi @2.4 GHz 4 dBi @5 GHz	4 dBi @2.4 GHz 6 dBi @5 GHz	5 dBi
LAN						
Number of 10/100M LAN	-	-	-	-	-	-
Number of 10/100/1000M LAN	1	1	1	1	1	1
PoE	Yes	Yes	Yes	Yes	Yes	Yes
PoE power draw (watt)	9	4	4	9	7	6
WLAN Features						
WLAN maximum net throughput	Up to 450 Mbps	Up to 110 Mbps	Up to 110 Mbps	Up to 450 Mbps	Up to 300 Mbps	Up to 110 Mbps
Mesh AP (By license)	Yes (V4.22)	Yes (V4.1)	Yes (V4.1)	-	-	-
Mesh AP for multiple SSID with VLAN	-	-	-	-	-	-
Fast roaming	Pre-authentication and PMK caching	Pre-authentication and PMK caching	Pre-authentication and PMK caching	-	-	-
Wireless Security						
WPA/WPA2-PSK	Yes	Yes	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise	Yes	Yes	Yes	Yes	Yes	Yes
WMM (Wi-Fi Certified)	Yes	Yes	Yes	Yes	Yes	Yes
EAP types	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	PEAP, EAP-TLS, -TTLS, -SIM, -FAST, -AKA, -MD5 and -GTC
IEEE 802.1X	Yes	Yes	Yes	Yes	Yes	Yes
Number of SSID	16	8	8	16	16	8
Web authentication	Yes*	Yes*	Yes*	-	-	-
MAC filtering	Yes	Yes	Yes	Yes	Yes	Yes
Layer-2 isolation	Yes, multiple profile	Yes, multiple profile	Yes, multiple profile	Yes	Yes	Yes
RADIUS authentication	Yes	Yes	Yes	Yes	Yes	Yes
Microsoft AD authentication	Yes*	Yes*	Yes*	-	-	-
LDAP authentication	Yes*	Yes*	Yes*	-	-	-
MAC authentication	Yes*	Yes*	Yes*	-	-	-
Embedded RADIUS server	-	-	-	-	-	-
Rogue AP detection	Yes	Yes	Yes	-	-	-
Rogue AP containment	Yes (V4.22)	Yes (V4.1)	Yes (V4.1)	-	-	-
Firewall	Yes*	Yes*	Yes*	-	-	-
Network						
IPv6 host	Yes (V4.22)	Yes (V4.1)	Yes (V4.1)	Yes	Yes	Yes
VLANs	Yes	Yes	Yes	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes	Yes	Yes	Yes
Management						
Standalone AP mode	Yes	Yes	Yes	Yes	Yes	Yes
Managed AP mode	Yes	Yes	Yes	-	-	-
Web UI/CLI	Yes	Yes	Yes	Yes	Yes	Yes
SNMP	Yes	Yes	Yes	Yes	Yes	Yes
Others						
Plenum rating	Yes	Yes	Yes	Yes	Yes	-
Power supply	Input: AC 100 - 240 V - 50/60 Hz 0.3 A Output: DC +12 V 1.5 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A Output: DC +12 V 1.5 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A Output: DC +12 V 1.5 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A Output: DC +12 V 1 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A Output: DC +12 V 1 A	Input: AC 100 - 240 V - 50/60 Hz 0.3 A Output: DC +12 V 1 A
MTBF (hr)	1,727,244	627,152	627,152	1,727,244	656,972	1,018,460
Heat dispersion (BTU/hr)	30.7	13.66	13.66	30.7	23.9	23.9
Physical Specifications						
Dimensions (WxDxH) (mm/in.)	130 x 130 x 54.7/ 5.12 x 5.12 x 2.17	150 x 130 x 54.5/ 5.9 x 5.12 x 2.17	130 x 130 x 54.5/ 5.12 x 5.12 x 2.17	130 x 130 x 54.7/ 5.12 x 5.12 x 2.17	130 x 130 x 54.5/ 5.12 x 5.12 x 2.17	153 x 110 x 38/ 6.02 x 4.33 x 1.5
Weight (g/lb.)	300/0.67	230/0.51	230/0.51	300/0.57	260/0.57	240/0.529
Included accessories	• Power adapter • Wall/ceiling mount plate	• Power adapter • Wall/ceiling mount plate	• Power adapter • Wall/ceiling mount plate	• Power adapter • Wall/ceiling mount plate	• Power adapter • Wall/ceiling mount plate	• Power adapter • Mounting screws

*: Supported when working with the NXC2500 and NXC5500



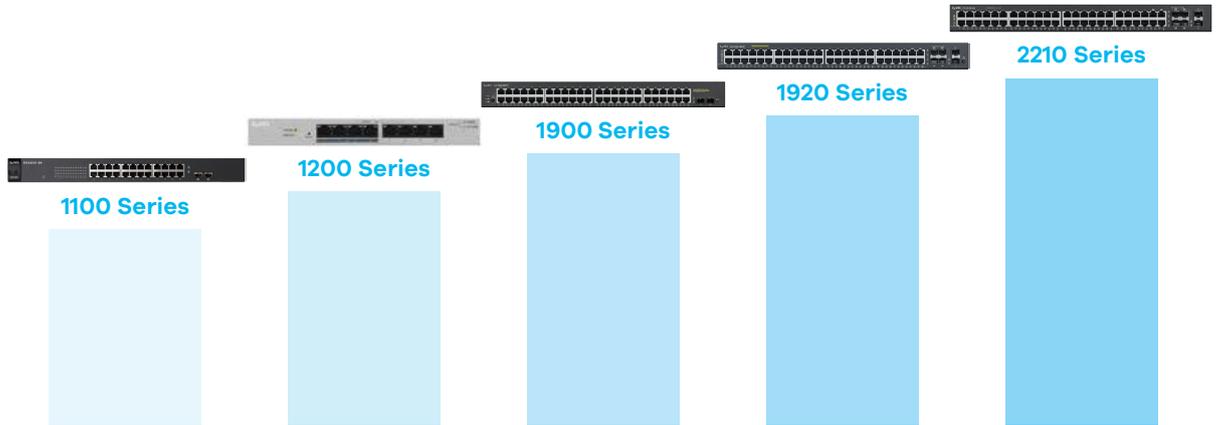
Switches

- 28 L3 Managed Switches
- 30 L2/L2+ Managed Switches
- 36 Smart Managed Switches
- 38 Web Managed Switches
- 39 Unmanaged Switches
- 41 Rugged Switches
- 42 Switch Accessories



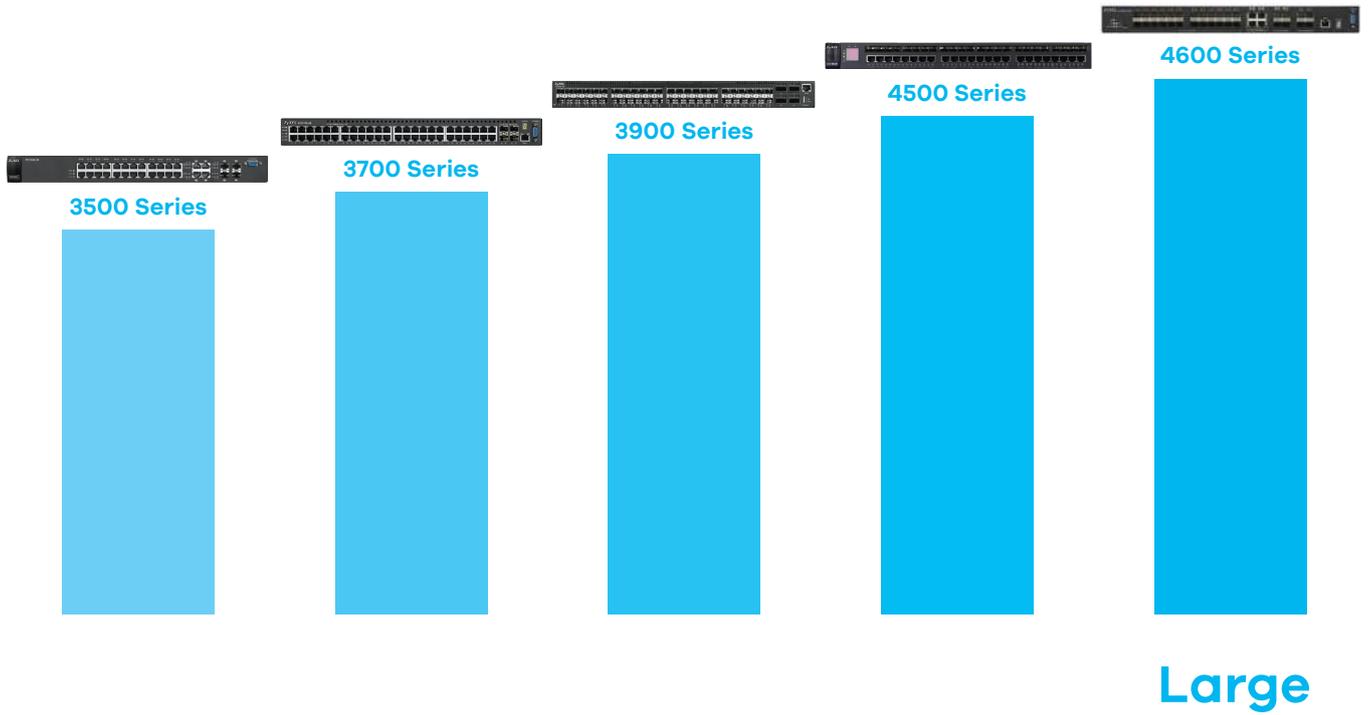
LAN Switch Quick Finder

Features/Scalability



Business Scale **Small**

Ports	PRFM	Unmanaged		Web Managed	Smart Managed			L2 Managed
		Unmanaged		Web Managed	Smart Managed			Access Switches
		1100 Series	1200 Series	1900 Series	1920 Series	2210 Series		
		10/100M	Gigabit	Gigabit	Gigabit	Gigabit	10 Gigabit	Gigabit
52	-	-	-	-	-	-	-	-
48	-	-	-	-	GS1900-48 GS1900-48HP	GS1920-48 GS1920-48HP	-	GS2210-48 GS2210-48HP
32	-	-	-	-	-	-	-	-
28	-	-	-	-	-	-	-	-
24	ES1100-24E ES1100-24	GS1100-24 GS1100-24E	-	-	GS1900-24E GS1900-24 GS1900-24HP	GS1920-24 GS1920-24HP	-	GS2210-24 GS2210-24HP GS2210-24LP
16	ES1100-16 ES1100-16P	GS1100-16	-	-	GS1900-16	-	-	-
12	-	-	-	-	-	-	XS1920-12	-
10	-	GS1100-10HP	-	-	GS1900-10HP	-	-	-
8	ES1100-8P	GS1100-8HP	GS1200-8HP	-	GS1900-8 GS1900-8HP	-	-	GS2210-8 GS2210-8HP
5	-	-	GS1200-5HP	-	-	-	-	-
Accessories		EM-412/EM-422, MC1000-SFP-FP/MC100FX-SC30-A/MC100FX-SC2-A, PoE12-HP, RPS300, RPS600-HP						



L2 Managed					L3 Managed		
Access Switches		Aggregation Switches			Core/Distribution Switches		
2210 Series	3500 Series	3700 Series		3900 Series	4500 Series	4600 Series	
10G Uplink	10/100M	Gigabit	10G Uplink	10 Gigabit	40G Uplink	10G Uplink	10G Uplink
XGS2210-52 XGS2210-52HP	-	-	-	-	-	-	-
-	-	GS3700-48 GS3700-48HP	XGS3700-48 XGS3700-48HP	-	XS3900-48F	-	-
-	-	-	-	-	-	-	XGS4600-32F XGS4600-32
XGS2210-28 XGS2210-28HP	-	-	-	-	-	-	-
-	ES3500-24	GS3700-24 GS3700-24HP	XGS3700-24 XGS3700-24HP	XS3700-24	-	XGS-4528F XGS-4526	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	ES3500-8PD	-	-	-	-	-	-
-	-	-	-	-	-	-	-

Zyxel switch solutions

Empowering businesses productivity

Businesses today face the challenges of a fast-paced and highly dynamic global economy. They rely on cloud applications, social media, mobility and unified communications to enhance cross-site collaboration and facilitate business growth. It is now imperative that businesses build network infrastructure to support these technologies. Business networks today must be fast, expandable, green, and easy to deploy and manage.

Zyxel Switch Solutions lay the network foundation for efficient business operations. They provide the speed, flexibility and manageability to support voice, video or data center applications in growing business environments. Zyxel's portfolio range from Unmanaged to Layer 3 switches, with PoE and 10-Gigabit connectivity available to satisfy a wide variety of deployment needs.

High-speed Connectivity

Zyxel Switches are designed to provide the speed to handle spikes in network traffic and bandwidth-hungry applications. With Gigabit Ethernet technology, Zyxel Switches offer high-speed LAN connectivity for data, voice and video applications. They also feature 10-Gigabit connectivity for aggregation, HSIA, storage, or high-bandwidth server connections.

Management Visibility

Zyxel Switches offer multiple management options and features to make deployment effortless. IT staff can manage Zyxel Switches via Web GUI, CLI, or SNMP. Zyxel's intuitive Web GUI makes management easy even for non-technical users; while CLI consistency across Zyxel's switch portfolio lowers expenses on IT training. With LLDP and LLDP-MED support, Zyxel Switches offer automated device discovery for easy deployment mapping.



Power over Ethernet

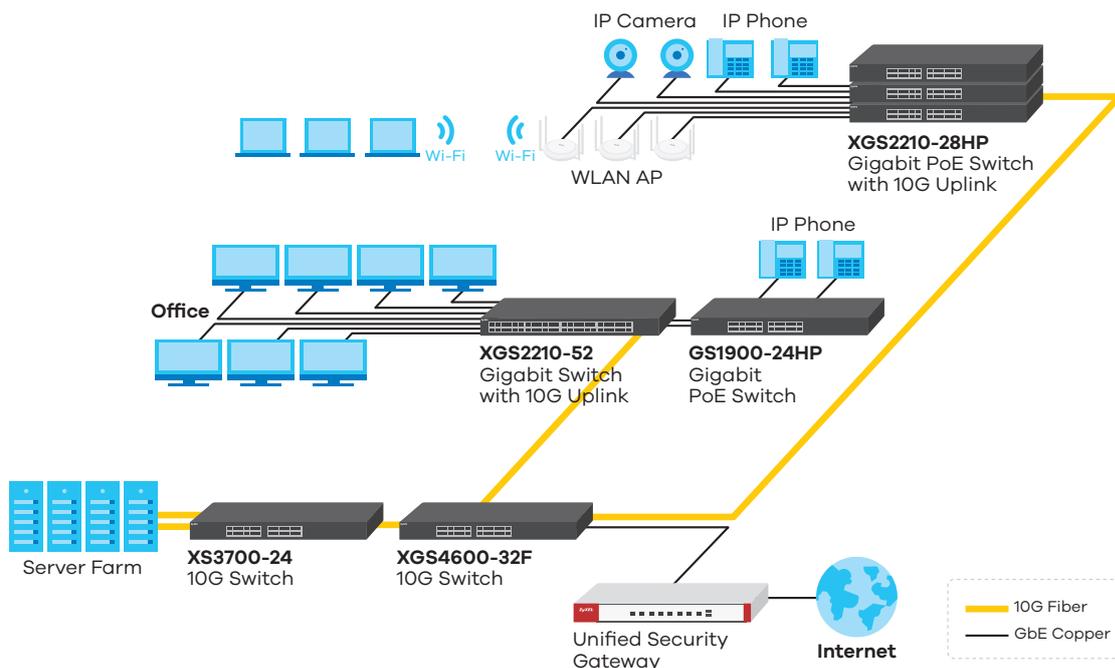
Zyxel offers a complete range of standard-based Power over Ethernet (PoE) switches that help businesses ease the installation of WLAN, VoIP and IP surveillance systems. Zyxel's PoE portfolio includes unmanaged, smart managed and fully managed PoE switches. They are designed with intelligent PoE and power management features to help businesses use energy more efficiently and maximize service availability.

Intelligent PoE

Zyxel PoE Switches feature intelligent PoE technology that automatically detects the power consumption status of each powered device and supply only the amount of power required. This smart feature enables Zyxel PoE Switches to use power more efficiently and help businesses save money.

Centralized Power Management

Zyxel PoE Switches provide a centralized interface to monitor power consumption levels and set power supply policies. These robust power monitoring and management features help IT staff manage powered devices more easily and maximize service availability.



Switch 4600 Series

Layer 3 Managed Switches — 10 Gigabit Ethernet



- Four (4) 10 Gigabit SFP+ uplinks enable congestion free and smooth data delivery for high-bandwidth applications
- Provide high-bandwidth by true physical stacking up to 4 units and 112 Gigabit ports
- L2 and L3 stacking capability to sustain larger network deployment needs
- Redundant power supply support
- 32K MAC address table and 12K Layer 3 Route table for increasing network demand
- Fresh look-and-feel with carbon-like front panel and new Zyxel logo



XGS4600-32

24 x Gigabit RJ-45 ports, 4 x Gigabit (RJ-45/SFP) combo ports, 4 x 10-Gigabit SFP+ ports. 19" rackmount



XGS4600-32F

24 x Gigabit SFP ports, 4 x Gigabit combo (RJ-45/SFP) ports, 4 x 10-Gigabit SFP+ ports. 19" rackmount

Specifications

Backplane	136 Gbps, non-blocking		
MAC address table	32,000		
L3 forwarding table	Max. 8 K IPv4 entries Max. 4 K IPv6 entries		
Routing table	12 K		
IP interface	256		
Redundancy	802.3ad link aggregation, VRRP, 802.1w RSTP, 802.1s MSTP		
Security		802.1x RADIUS authentication, SSH, SSL, intrusion lock, MAC filtering/forwarding, MAC freeze, VLAN stacking, TACACS+, RADIUS	
Special features		Support Digital Diagnostics Monitoring Interface (DDMI) for better fault isolation and error detection	
Power supply		100 - 240 V AC, 50/60 Hz	

Switch 4500 Series

Layer 3 Managed Switches — 10 Gigabit Ethernet



- Slot for 2 port 10 Gbit module
- Extended L3 routing and L2 switching functions for highest performance
- Multilayer-aware (L2/L3/L4) ACL for security protection and traffic optimization
- Port security and enhanced 802.1x port authentication



XGS-4526

20 x Gigabit RJ-45 ports, 4 x Gigabit combo (RJ-45/SFP) ports, 1 x 2-port 10G open slot. 19" rackmount



EM-412

2-port CX4 module



XGS-4528F

24 x Gigabit combo (RJ-45/SFP) ports, 1 x 2-port 10G open slot, and 2 x 10G CX4 ports. 19" rackmount



EM-422

2-port XFP module

Specifications

Backplane	96 Gbps, non-blocking (XGS-4526) 144 Gbps, non-blocking (XGS-4528F)
MAC address table	8,000
VLAN support	1,000 static, 4,000 dynamic
L3 forwarding table	Max. 2 K IPv4 entries Max. 1 K IPv6 entries
Static route	512
IP interface	64
Redundancy	802.3ad link aggregation, VRRP, 802.1w RSTP, 802.1s MSTP

Security	802.1x RADIUS authentication, SSH, SSL, intrusion lock, MAC filtering/forwarding, MAC freeze, VLAN stacking, TACACS+, RADIUS
Extension modular	10 Gbit CX4 slot module (EM-412) 10 Gbit XFP slot module (EM-422)
Power supply	100 - 240 V AC, 50/60 Hz

Switch 3900 Series

Layer 2+ Managed Switch



- 1.28 Tbps non-blocking switching capacity
- Forty-eight 10GbE SFP+ ports and four 40GbE QSFP+ uplinks
- Data center optimized with DCBX, 802.1Qaz (ETS) and 802.1Qbb (PFC) protocol support
- Redundant and hot-swappable fan trays and power supply modules
- Modular and flexible rack-by-rack deployment
- Low power consumption design



XS3900-48F

48 x 10-Gigabit SFP+ ports, 4 x 40-Gigabit QFSP+. 19" rackmount

Specifications

Backplane	1,280 Gbps, non-blocking	
MAC address table	128,000	
Data Center Bridging (DCB)	IEEE 802.1Qbb Priority-based Flow Control (PFC), IEEE 802.1Qaz Enhanced Transmission, Selection (ETS), IEEE 802.1Qaz DCB capability exchange protocol (Proposed under the DCB task group of the IEEE 802.1 working group)	
Security		IEEE 802.1x, port security, MAC authentication, L2 MAC filtering, L3 IP filtering, L4 TCP/UDP socket filtering, BPDU transparency, static MAC forwarding, multiple RADIUS servers, multiple TACACS+ servers, IEEE 802.1x VLAN and bandwidth assignment by RADIUS, login authentication by RADIUS, login authentication by TACACS+, TACACS+ accounting, RADIUS accounting, authorization on TACACS+, SSH v1/v2, SSL
Power supply		100 - 240 V AC, 50/60 Hz

Switch 3700 Series

Layer 2+ Managed Switches — 10 Gigabit Ethernet



XS3700-24

12 x 10-Gigabit SFP+ ports, 8 x 10-Gigabit RJ-45 ports, 4 x 10-Gigabit combo (RJ-45/SFP) ports. 19" rackmount

Specifications

Backplane	480 Gbps, non-blocking
MAC address table	16,000
L3 forwarding table	Max. 1 K IPv4 entries Max. 512 IPv6 entries

- 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
- Internal redundant power supply design
- Comprehensive security features to ensure network availability

Static route	64
IP interface	128
Power supply	100 - 240 V AC, 50/60 Hz

Switch 3700 Series

Layer 2+ Managed Switches — Gigabit Ethernet with 10G Uplink



XGS3700-24

24 x Gigabit RJ-45 ports, 4 x 10-Gigabit SFP+ ports. 19" rackmount



XGS3700-24HP

24 x Gigabit RJ-45 PoE ports, 4 x 10-Gigabit SFP+ ports. 19" rackmount



XGS3700-48

48 x Gigabit RJ-45 ports, 4 x 10-Gigabit SFP+ ports. 19" rackmount



XGS3700-48HP

48 x Gigabit RJ-45 PoE ports, 4 x 10-Gigabit SFP+ ports. 19" rackmount

Specifications

Backplane	128 Gbps, non-blocking (XGS3700-24/24HP) 176 Gbps, non-blocking (XGS3700-48/48HP)
MAC address table	16,000
L3 forwarding table	Max. 1 K IPv4 entries Max. 512 IPv6 entries

Static route	64
IP interface	128
Power supply	100 - 240 V AC, 50/60 Hz

- Physical stacking up to 8 units and 384 Gigabit ports through 2 standard 10G SFP+ ports
- 24 or 48 port Gigabit connectivity with four 10G SFP+ uplinks
- Internal redundant power supply design
- High PoE power budget up to 1000 W

Switch 3700 Series

Layer 2+ Managed Switches — Gigabit Ethernet



- Full Layer 2 feature set with Layer 3 features including static routing, policy-based routing, VRRP and ECMP support
- 24 or 48 ports of Gigabit Ethernet desktop connectivity
- Four (4) 1GbE SFP uplink flexibility
- Internal redundant power supply design
- High PoE power budget up to 1000 W



GS3700-24

24 x Gigabit RJ-45 ports, 4 x Gigabit SFP ports. 19" rackmount



GS3700-48

48 x Gigabit RJ-45 ports, 4 x Gigabit SFP ports. 19" rackmount



GS3700-24HP

24 x Gigabit RJ-45 PoE ports, 4 x Gigabit SFP ports. 19" rackmount



GS3700-48HP

48 x Gigabit RJ-45 PoE ports, 4 x Gigabit SFP ports. 19" rackmount

Specifications

Backplane	56 Gbps, non-blocking (GS3700-24/24HP) 104 Gbps, non-blocking (GS3700-48/48HP)	Redundancy	802.3ad link aggregation, 802.1w RSTP, 802.1s MSTP, MRSTP, supports backup power system
MAC address table	16,000	Security	802.1x RADIUS authentication, multi-layer ACL (L2/3/4), SSH, SSL, intrusion lock, MAC filtering/forwarding, MAC freeze, TACACS+, RADIUS
L3 forwarding table	Max. 1 K IPv4 entries Max. 512 IPv6 entries	Management	SNMP v3, RMON, DHCP, out-of-band management port, RS-232 console port, Telnet CLI, web management, port mirroring
Static route	64	Power supply	100 - 240 V AC, 50/60 Hz
IP interface	128		

Switch 3500 Series

Layer 2 Managed Switches — Fast Ethernet



- 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



ES3500-8PD

8 x 100 Mbit RJ-45 ports, 2 x Gigabit combo (RJ-45/SFP) ports.
Desktop design



ES3500-24

24 x 100 Mbit RJ-45 ports, 4 x Gigabit combo (RJ-45/SFP) ports.
19" rackmount

Specifications

Backplane	12.8 Gbps, non-blocking (ES3500-24) 5.6 Gbps, non-blocking (ES3500-8PD)	Management	DB-9 RS-232 console, SNMP v2c/v3, Syslog, 802.3ah OAM, 802.1ag CFM, Loop guard, Cable diagnostic
MAC address table	16,000	Power supply	100 - 240 V AC, 50/60 Hz
Redundancy	Dual image		
Security	Static address filtering, Static address forwarding, Mac Freeze, 802.1X port authentication, Limiting number of dynamic address per port, PPPoE-IA Option 82, SSH v1/v2, SSL, Multiple RADIUS servers, Multiple TACACS+ servers, 802.1X VLAN and bandwidth assignment, IP source guard		

Switch 2210 Series

Layer 2 Managed Switches — Gigabit Ethernet with 10G Uplink



- Physical stacking up to 2 units through 2 standard 10G SFP+ ports
- Gigabit connectivity, plus four (4) SFP+ ports to deal with high-bandwidth network with ease
- PoE models comply with IEEE 802.3at PoE Plus with high power budget up to 375 W
- 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



XGS2210-28

24 x Gigabit RJ-45 ports, 4 x 10-Gigabit SFP+ ports.
19" rackmount



XGS2210-28HP

24 x Gigabit RJ-45 PoE ports, 4 x 10-Gigabit SFP+ ports.
19" rackmount



XGS2210-52

48 x Gigabit RJ-45 ports, 4 x 10-Gigabit SFP+ ports.
19" rackmount



XGS2210-52HP

48 x Gigabit RJ-45 PoE ports, 4 x 10-Gigabit SFP+ ports.
19" rackmount

Specifications

Backplane	128 Gbps, non-blocking (XGS2210-28/28HP) 176 Gbps, non-blocking (XGS2210-52/52HP)
MAC address table	16,000
L3 forwarding table	Max. 1 K IPv4 entries Max. 512 IPv6 entries
Static route	64

IP interface	32
Power over Ethernet	All PoE ports with 802.3at, power budget 375 watts for XGS2210-28HP/52HP
Power supply	100 - 240 V AC, 50/60 Hz

Switch 2210 Series

Layer 2 Managed Switches — Gigabit Ethernet



- GbE RJ-45, GbE combo (RJ-45/SFP) and fixed GbE SFP connectivity
- PoE models comply with IEEE 802.3at PoE Plus with high power budget
- 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



GS2210-8

8 x Gigabit RJ-45 ports, 2 x Gigabit combo (RJ-45/SFP) ports



GS2210-8HP

8 x Gigabit RJ-45 PoE ports, 2 x Gigabit combo (RJ-45/SFP) ports



GS2210-24

24 x Gigabit RJ-45 ports, 4 x Gigabit combo (RJ-45/SFP) ports. 19" rackmount



GS2210-24HP

24 x Gigabit RJ-45 PoE ports, 4 x Gigabit combo (RJ-45/SFP) ports. 19" rackmount



GS2210-24LP

24 x Gigabit RJ-45 PoE ports, 4 x Gigabit combo (RJ-45/SFP) ports. 19" rackmount



GS2210-48

44 x Gigabit RJ-45 ports, 2 x Gigabit SFP ports, 4 x Gigabit combo (RJ-45/SFP) ports. 19" rackmount



GS2210-48HP

48 x Gigabit RJ-45 PoE ports, 2 x Gigabit SFP ports, 4 x Gigabit combo (RJ-45/SFP) ports. 19" rackmount

Specifications

Backplane	100 Gbps, non-blocking (GS2210-48/48HP) 56 Gbps, non-blocking (GS2210-24/24HP/24LP) 20 Gbps, non-blocking (GS2210-8/8HP)
MAC address table	16,000
VLAN support	1,000 static, 4,000 dynamic
Security	802.1x RADIUS authentication, SSH, SSL, intrusion lock, MAC filtering/forwarding, MAC freeze

Management	iStacking, CLI over Telnet/SSH/RS232 console, Web GUI over HTTP/HTTPS, SNMP v2c, v3 manageable, RMON, F/w upgrade, configuration backup/restore via ftp, IEEE 802.1ag CFM, IEEE 802.3ah OAM
Special feature	Digital Diagnostics Monitoring Interface (DDMI) for better fault isolation and error detection
Power over Ethernet	All PoE ports with 802.3at, power budget 375 watts for GS2210-24HP/48HP; 180 watts for GS2210-24LP/8HP
Power supply	100 - 240 V AC, 50/60 Hz

Switch 1920 Series

Advanced Smart Managed Switches — 10 Gigabit Ethernet



XS1920-12

10 x 10-Gigabit RJ-45 ports, 2 x 10-Gigabit combo (RJ-45/SFP+) ports.
19" rackmount

Specifications

Backplane	240 Gbps, non-blocking
Forwarding rate	178.6 Mpps
MAC address table	16,000
L3 forwarding table	Max. 512 IPv4 entries Max. 256 IPv6 entries

- 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
- Dual firmware images and configuration ensure network availability

Static route	64
IP interface	32
Power supply	100 - 240 V AC, 50/60 Hz

Switch 1920 Series

Advanced Smart Managed Switches — Gigabit Ethernet



GS1920-24

24 x Gigabit RJ-45 ports, 4 x Gigabit combo (RJ-45/SFP) ports.
19" rackmount



GS1920-24HP

24 x Gigabit RJ-45 PoE ports, 4 x Gigabit combo (RJ-45/SFP) ports. 19" rackmount

- 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



GS1920-48

44 x Gigabit RJ-45 ports, 2 x Gigabit SFP ports, 4 x Gigabit combo (RJ-45/SFP) ports.
19" rackmount



GS1920-48HP

48 x Gigabit RJ-45 PoE ports, 2 x Gigabit SFP ports, 4 x Gigabit combo (RJ-45/SFP) ports. 19" rackmount

Specifications

Backplane	100 Gbps, non-blocking (GS1920-48/48HP) 56 Gbps, non-blocking (GS1920-24/24HP)
MAC address table	16,000
Power over Ethernet	All PoE ports with 802.3at, power budget 375 watts (GS1920-24HP/48HP)

Data transfer and prioritization	802.1p (8 priority queues per port), SPQ/WRR/WFQ, L2 multicast, IGMP snooping, 802.1Q VLAN tagging, VLAN trunking, GVRP, bandwidth management
Power supply	100 - 240 V AC, 50/60 Hz

Switch 1900 Series

Advanced Smart Managed Switches — Gigabit Ethernet



- 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)



GS1900-8

8 x Gigabit RJ-45 ports. Desktop design



GS1900-8HP

8 x Gigabit RJ-45 PoE ports. Desktop design



GS1900-10HP

8 x Gigabit RJ-45 ports. 2 x Gigabit SFP ports. Desktop design



GS1900-16

16 x Gigabit RJ-45 ports. Desktop design



GS1900-24E

24 x Gigabit RJ-45 ports. Desktop design



GS1900-24

24 x Gigabit RJ-45 ports, 2 x Gigabit SFP ports. 19" rackmount



GS1900-24HP

24 x Gigabit RJ-45 PoE ports, 2 x Gigabit SFP ports. 19" rackmount



GS1900-48

48 x Gigabit RJ-45 ports, 2 x Gigabit SFP ports. 19" rackmount



GS1900-48HP

24 x Gigabit RJ-45 PoE ports, 24 x Gigabit RJ-45 ports, 2 x Gigabit SFP ports. 19" rackmount

Specifications

Backplane	16 Gbps, non-blocking (GS1900-8/8HP)
	20 Gbps, non-blocking (GS1900-10HP)
	32 Gbps, non-blocking (GS1900-16)
	48 Gbps, non-blocking (GS1900-24E)
	52 Gbps, non-blocking (GS1900-24/24HP)
MAC address table	100 Gbps, non-blocking (GS1900-48/48HP)
	8,000
Security	IEEE 802.1x, port security, L2 MAC filtering, BPDU guard, static MAC forwarding, RADIDUS, TACACS+, SSL, Mgmt. VLAN, DoS prevention

Jumbo frame (byte)	9K
Management	SNMP v3, web management, port mirroring
Power over Ethernet	8 ports each with 30 watts, total power budget 70 watts for GS1900-8HP and 77 watts for GS1900-10HP 24 ports each with 30 watts, total power budget 170 watts (GS1900-24HP/48HP)
Power supply	100 - 240 V AC, 50/60 Hz

Switch 1200 Series

Web Managed Switches — Gigabit Ethernet



- Four Gigabit high-power PoE+ ports, total budget 60 watt
- 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



GS1200-5HP

Gigabit Ethernet switch, Web managed, 5 ports RJ-45 with 4 ports PoE, desktop design



GS1200-8HP

Gigabit Ethernet switch, Web managed, 8 ports RJ-45 with 4 ports PoE, desktop design

Specifications

<p>Standard compliance</p> <ul style="list-style-type: none"> • IEEE 802.3u 100BASE-TX Ethernet • IEEE 802.3ab 1000BASE-T Ethernet • IEEE 802.3az EEE support • IEEE 802.3x flow control • IEEE 802.3z 1000BASE-X • IEEE 802.1p CoS • IEEE 802.3af PoE • IEEE 802.3at PoE Plus (30 W per port) • Auto MDI/MDI-X • IEEE 802.1Q VLAN tagging 	<ul style="list-style-type: none"> • Web-based management • System password • Port-based VLAN • VLAN (Port supported) GS1200-5HP: 5 ports GS1200-8HP: 8 ports <p>Special features</p> <ul style="list-style-type: none"> • Port-based QoS • 802.1p CoS • Broadcast storm control • Loop detection • IGMP snooping v1/v2/and v3 compatible • Supported multicast groups: 20 • Firmware update
<p>Performance</p> <ul style="list-style-type: none"> • Switching capacity: 10 Gbps/16Gbps (GS1200-5HP/GS1200-8HP) • Packet buffer: 128 KB/192KB (GS1200-5HP/ GS1200-8HP) • MAC address: 4000 • Jumbo frame (byte): 9 KB 	<p>Power</p> <ul style="list-style-type: none"> • Input voltage: 55 V/1.3 A • Power supply: External • Maximum power consumption: 72 Watt • PoE power budget: 60 Watt

Switch 1100 Series

Unmanaged Switch — Gigabit Ethernet



- 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)
- IEEE 802.3at PoE Plus standard with 30 W per port (GS1100-8HP/GS1100-10HP)



GS1100-8HP

4 x Gigabit RJ-45 PoE ports, 4 x Gigabit RJ-45 ports. Desktop design



GS1100-10HP

8 x Gigabit RJ-45 PoE ports, 2 x Gigabit SFP ports. Desktop design



GS1100-16

16 x Gigabit RJ-45 ports. Desktop design



GS1100-24E

24 x Gigabit RJ-45 ports. Desktop design



GS1100-24

24 x Gigabit RJ-45 ports, 2 x Gigabit SFP ports. 19" rackmount

Specifications

Backplane	16 Gbps, non-blocking (GS1100-8HP)	Management	Plug & Play		
	20 Gbps, non-blocking (GS1100-10HP)		Special feature	Fanless design, IEEE 802.3az compliant	
	32 Gbps, non-blocking (GS1100-16)			Power over Ethernet	4 ports each with 30 Watt, total power budget, 75 Watt (GS1100-8HP), 8 ports each with 30 Watt total power budget 130 Watt (GS1100-10HP)
	52 Gbps, non-blocking (GS1100-24)		Power supply		100 - 240 V AC, 50/60 Hz
	48 Gbps, non-blocking (GS1100-24E)				
MAC address table	8,000				
Buffer memory	256 KB (GS1100-8HP/GS1100-16) 525 KB (GS1100-24/GS1100-24E)				

Switch 1100 Series

Unmanaged Switch — Fast Ethernet



- Non-blocking, wire-speed transmission
- Auto MDI/MDI-X support
- IEEE 802.3az compliant (ES1100-8P/ES1100-16P/ES1100-16/ES1100-24E/ES1100-24)
- Fanless design for silent operations (ES1100-8P/ES1100-16/ES1100-24E/ES1100-24)
- IEEE 802.3x flow control supported
- IEEE 802.1p CoS supported
- IEEE 802.3af power on up to 4/8 ports (ES1100-8P/16P)



ES1100-8P

4 x 100 Mbit RJ-45 PoE ports, 4 x 100 Mbit RJ-45 ports. Desktop design



ES1100-24E

24 x 100 Mbit RJ-45 ports. Desktop design



ES1100-16

16 x 100 Mbit RJ-45 ports. Desktop design



ES1100-24

24 x 100 Mbit RJ-45 ports. 19" rackmount



ES1100-16P

8 x 100 Mbit RJ-45 PoE ports, 8 x 100 Mbit RJ-45 ports. Desktop design

Specifications

Backplane	1.6 Gbps, non-blocking (ES1100-8P) 3.2 Gbps, non-blocking (ES1100-16/ES1100-16P) 4.8 Gbps, non-blocking (ES1100-24/ES1100-24E)
MAC address table	1,000 (ES1100-8P) 8,000 (ES1100-16/ES1100-16P/ES1100-24/ ES1100-24E)
Buffer memory	96 KB (ES1100-8P), 160 KB (ES1100-16P) 256 KB (ES1100-16/ES1100-24/ES1100-24E)
Management	Plug & Play

Special feature	IEEE 802.3az compliant (ES1100-8P/ ES1100-16P/ES1100-16/ES1100-24/ES1100-24E)
Power over Ethernet	8/16 ports each with 15.4 Watt, total power budget 64 Watt/130 Watt (ES1100-8P/ES1100-16P)
Power supply	100 - 240 V AC, 50/60 Hz

Rugged Switch 100 Series

Unmanaged Switch — Gigabit Ethernet



RGS100-5P
4 x Gigabit RJ-45 PoE ports, 1 x Gigabit SFP ports.
DIN rail and wall mount

- Wide-ranging operating temperature design from -40 to 75 degree C
- All PoE ports support PoE+ and high PoE power budget up to 120 W
- Fanless design and compact mechanism with IP30 standard
- Dual power inputs (12 V - 58 V DC)

Specifications

Backplane	10 Gbps
MAC address	2,000
Data transfer and prioritization	Half and full duplex operation, jumbo frames, 802.1p class of service, 802.3x flow control

Special feature	Dual DC power inputs, IP30 metal case protection, DIN rail and wall mount
Power over Ethernet	120 Watt
Power supply	Dual power input 12 V - 58 V DC

Rugged Switch 200 Series

Managed Switches — Gigabit Ethernet



RGS200-12P
8 x Gigabit RJ-45 PoE ports, 4 x Gigabit SFP ports.
DIN rail and wall mount

- Wide-ranging operating temperature design from -40 to 75 degree C
- Redundant ring technology with quick failover in less than 20 ms
- Fanless design and compact mechanism with IP30 standard
- Dual power inputs for high network resilience
- Full PoE+ support and high PoE power budget up to 240 W

Specifications

Backplane	24 Gbps
MAC address	8,000
Data transfer and prioritization	802.1p (8 priority queues per port), SPQ/WRR, prioritization L2 multicast, IGMP snooping, 802.1Q VLAN tagging, GVRP

Special feature	PoE scheduling, 2KV Ethernet surge protection, IP30 metal case protection, DIN rail and wall mount
Power over Ethernet	240 Watt
Power supply	Dual power input 12 V - 58 V DC

Transceiver Series

Fiber Transceivers and Direct Attached Cables



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

10GbE Transceiver Modules				
	10 Gigabit XFP		10 Gigabit SFP+	
	XFP-SR	FTLX1412D3BCL (XFP-LR)	SFP10G-SR	SFP10G-LR
Connector	LC	LC	Duplex LC	Duplex LC
Wavelength	850 nm	1310 nm	850 nm	1310 nm
Max Transmission Distance	0.3 km/328 yd	10 km/10936 yd	0.3 km/328 yd	10 km/10936 yd
Support DDMI Features	Yes	Yes	Yes	Yes
Optical Fiber Type	Multiple Mode	Single Mode	Multiple Mode	Single Mode
Operational Ranges				
Supply Voltage	3.1 - 3.45 V	3.1 - 3.5 V	3.14 - 3.46 V	3.14 - 3.46 V
Max Current	400 mA	600 mA	250 mA	285 mA

GbE Transceiver Modules							
	Gigabit SFP						
	SFP-1000T	SFP-SX-D	SFP-LX-10-D	SFP-BX 1310-10-D*1	SFP-BX 1490-10-D*1	SFP-LHX 1310-40-D	SFP-ZX-80-D
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
Operational Ranges							
Supply Voltage	3.1 - 3.45 V	3.1 - 3.5 V	3.1 - 3.5 V	3.1 - 3.5 V	3.1 - 3.5 V	3.1 - 3.5 V	3.1 - 3.5 V
Max Current	300 mA	250 mA	300 mA	-	300 mA	300 mA	300 mA

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

Direct Attached Cable 10G Series		
DAC10G		
	DAC10G-1M	DAC10G-3M
Connector	SFP+ to SFP+	SFP+ to SFP+
Wavelength	-	-
Max Transmission Distance	1 m/3.28 ft	3 m/9.84 ft
Support DDMI Features	-	-
Optical Fiber Type	-	-
Operational Ranges		
Supply Voltage	3.13 - 3.47 V	3.13 - 3.47 V
Max Current	480 mA	480 mA

PoE12-HP

Power over Ethernet Power Injector



PoE12-HP
1-port Gigabit Ethernet PoE power injector

- Install anywhere thanks to 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 cables

Specifications

Network interfaces	1 x 1 Gbit BASE-T 1 x 1 Gbit BASE-T with PoE	Power supply	100 - 240 V AC, 50/60 Hz
PoE standard	802.3at compatible, 100 m coverage	Dimensions (WxDxH)	207 x 65 x 38.5 mm (8.15" x 2.56" x 1.52")
Special features	Power surge and short circuit proof		

MC1000-SFP-FP

Media Converter



MC1000-SFP-FP
Media converter fiber/Gigabit Ethernet, 1 x SFP connection, 1 x RJ-45

- Conversion between different transfer rates and types of media
- Standard fiber slots for SFP transceivers
- Link Fault Signalling (LFS) for interrupted connection display
- Wall mountable

Specifications

Network interfaces	1 x 1 Gbit BASE-T, 1 x 1 Gbit SFP slot	Power supply	External power supply unit 100 - 240 V AC, 50/60 Hz
Special features	Link Fault Signalling (LFS), special enclosure design for fiber protection	Dimensions (WxDxH)	194 x 129 x 25 mm (7.64" x 5.08" x 0.98")
Mounting	Wall fastening		

Model	Switch 4600 Seires*		Switch 4500 Series		Switch 3900 Series	Switch 3700 Series	
	XGS4600-32	XGS4600-32F	XGS-4526	XGS-4528F	XS3900-48F	XS3700-24	XGS3700-24
Switch class	Layer 3	Layer 3	Layer 3	Layer 3	Layer 2	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)
Hardware							
Total port count	32	32	26	28	52	24	28
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	-	20	-	-	-	24
1 Gigabit RJ-45 PoE ports	-	-	-	-	-	-	-
1 Gigabit SFP slots	-	24	-	-	-	-	-
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	4	-
Gigabit combo ports (RJ-45/SFP)	4	4	4	24	-	-	-
10 Gigabit CX4 ports	-	-	-	2	-	-	-
10 Gigabit module	-	-	1	1	-	-	-
10 Gigabit SFP+ slots	4	4	-	-	48	12	4
40-Gigabit QSFP+	-	-	-	-	4	-	-
Backplane bandwidth (Gbps)	136	136	96	144	1,280	480	128
Forwarding rate (Mpps)	101.1	101.1	71.4	100	952.4	357.14	95
MAC addresses table	32 K	32 K	8 K	8 K	128 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	Yes	-	-	-
RIP v1, v2	Yes	Yes	Yes	Yes	-	-	-
Static IP routing	Yes	Yes	Yes	Yes	-	Yes	Yes
VRRP	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
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	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
Others							
MTBF (hr)	860,611	794,270	119,814	125,667	156,472	446,035	280,000
Heat dissipation (BTU/hr)	160.27	204.94	289.85	245.52	1,024.32	Single PSU: 487.971 Dual PSU: 549.01	Single PSU: 1971 Dual PSU: 239.7
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	438 x 310 x 44.5/ 17.24 x 12.20 x 1.75	438 x 310 x 44.5/ 17.24 x 12.20 x 1.75	440 x 455 x 43/ 17.32 x 17.91 x 1.69	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
Weight (kg/lb.)	3.96/8.73	4.21/9.28	4.8/10.58	4.9/10.80	10.2/22.49	7.392/16.3	7.27/16.03
Included accessories	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Console cable Rack mounting kit 	<ul style="list-style-type: none"> Power cord Console cable Rack mounting kit CX-4 cable 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit

*: XGS4600 Series is available in Q1 2017

Model	Switch 3700 Series						
	XGS3700-24HP	XGS3700-48	XGS3700-48HP	GS3700-24	GS3700-24HP	GS3700-48	GS3700-48HP
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 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)
Hardware							
Total port count	28	52	52	28	28	52	52
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	-	48	-
1 Gigabit RJ-45 PoE ports	24	-	48	-	24	-	48
1 Gigabit SFP slots	-	-	-	4	4	4	4
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	-	-	-
10 Gigabit CX4 ports	-	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	4	4	4	-	-	-	-
40-Gigabit QSFP+	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	128	176	176	56	56	104	104
Forwarding rate (Mpps)	95	131	131	42	42	77	77
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	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	-	-	-	-	-	-	-
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)	220,000	250,000	200,000	280,000	220,000	250,000	200,000
Heat dissipation (BTU/hr)	Single PSU: 1,921 Dual PSU: 3,745.9	Single PSU: 254.7 Dual PSU: 298.7	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: 294.3 Dual PSU: 379.5
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 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.)	7.55/16.64	7.57/16.69	8.02/17.68	7.24/15.96	7.44/16.4	7.55/16.64	8/17.64
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

Model	Switch 3500 Series		Switch 2210 Series			
	ES3500-24	ES3500-8PD	XGS2210-28	XGS2210-28HP	XGS2210-52	XGS2210-52HP
Switch class	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Hardware						
Total port count	28	10	28	28	52	52
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-45PoE ports	-	-	-	24	-	48
1 Gigabit SFP slots	-	-	-	-	-	-
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	4	2	-	-	-	-
10 Gigabit CX4 ports	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	4	4	4	4
40-Gigabit QSFP+	-	-	-	-	-	-
Backplane bandwidth (Gbps)	12.8	5.6	128	128	176	176
Forwarding rate (Mpps)	9.6	4.17	95.2	95.2	130.9	130.9
MAC addresses table	16 K	16 K	16 K	16 K	16 K	16 K
Management						
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes
CLI, Web GUI	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
iStacking (single IP management)	Yes	Yes	Yes	Yes	Yes	Yes
Out-of-band management port	Yes	Yes	-	-	-	-
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
Redundant power support	-	-	-	-	-	-
Quality of Service						
Priority queues	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
Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes
Security						
MAC freeze/intrusion lock	Yes	Yes	Yes	Yes	Yes	Yes
802.1X authentication	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	Yes
ACL security filter L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes
Sflow	Yes	Yes	Yes	Yes	Yes	Yes
CPU protection	Yes	Yes	Yes	Yes	Yes	Yes
Green Features						
Fanless	Yes	Yes	Yes	-	-	-
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Others						
MTBF (hr)	133,798	485,196	831,699	560,726	970,594	500,904
Heat dissipation (BTU/hr)	48	32.4	68.2	1,483.4	153.3	1,688
Physical Specifications						
Dimensions (WxDxH)(mm/in.)	438 x 180 x 44.5/ 17.24 x 7.09 x 1.75	215.5 x 123 x 42/ 8.48 x 4.84 x 1.65	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
Weight (kg/lb.)	2.4/5.29	1.04/2.29	3.7/8.16	5.06/11.16	3.86/8.51	5.38/11.86
Included accessories	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Power adapter Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack-mount kits 	<ul style="list-style-type: none"> Power cord Rack-mount kits 	<ul style="list-style-type: none"> Power cord Rack-mount kits 	<ul style="list-style-type: none"> Power cord Rack-mount kits

Model	Switch 2210 Series						
	GS2210-8	GS2210-8HP	GS2210-24	GS2210-24HP	GS2210-24LP	GS2210-48	GS2210-48HP
Switch class	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Hardware							
Total port count	10	10	28	28	28	50	50
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	-	24	-	-	44	-
1 Gigabit RJ-45 PoE ports	-	8	-	24	24	-	48
1 Gigabit SFP slots	-	-	-	-	-	2	2
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	2	2	4	4	4	4	4
10 Gigabit CX4 ports	-	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-
40-Gigabit QSFP+	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	20	20	56	56	56	100	100
Forwarding rate (Mpps)	15	15	41.7	41.7	41.7	74	74
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	-	-	-	-	-	-	-
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/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	-	-	-	-	-	-	-
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)	1,382,030	1,155,719	211,623	133,063	616,247	631,451	337,690
Heat dissipation (BTU/hr)	41.26	753.61	92.75	1625.55	864.09	128.90	364.87
Physical Specifications							
Dimensions (WxDxH)(mm/in.)	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	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.)	1.425/3.14	2.703/5.96	2.26/4.98	4.83/10.63	4.40/9.7	3.04/6.7	5.13/11.3
Included accessories	<ul style="list-style-type: none"> Power cord Wall mount kit Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit

Model	Switch 1920 Series					Switch 1900 Series	
	XS1920-12	GS1920-24	GS1920-24HP	GS1920-48	GS1920-48HP	GS1900-8	GS1900-8HP
Switch class	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Hardware							
Total port count	12	28	28	50	50	8	8
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	-	24	-	44	-	8	-
1 Gigabit RJ-45 PoE ports	-	-	24	-	48	-	8
1 Gigabit SFP slots	-	-	-	2	2	-	-
10 Gigabit combo ports (RJ-45/SFP+)	2	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	4	4	4	4	-	-
10 Gigabit CX4 ports	-	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-
40-Gigabit QSFP+	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	240	56	56	100	100	16	16
Forwarding rate (Mpps)	178.6	41.7	41.7	74	74	11.9	11.9
MAC addresses table	16 K	16 K	16 K	16 K	16 K	8 K	8 K
Management							
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI, Web GUI	-/Web GUI	-/Web GUI	-/Web GUI	-/Web GUI	-/Web GUI	-/Web GUI	-/Web GUI
iStacking (single IP management)	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
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	-	-	-	-	-	-	-
8021p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security							
MAC freeze/intrusion lock	Yes/-	Yes/-	Yes/-	Yes/-	Yes/-	-	-
8021X authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	-/RADIUS	-/RADIUS
ACL security filter L2/L3/L4	Yes	Yes	Yes	Yes	Yes	-	-
Sflow	-	-	-	-	-	-	-
CPU protection	Yes	Yes	Yes	Yes	Yes	-	-
Green Features							
Fanless	-	Yes	-	-	-	Yes	Yes
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others							
MTBF (hr)	839,625	616,247	949,326	631,452	337,690	862,561	533,086
Heat dissipation (BTU/hr)	320.89	88.32	1,548.14	128.90	1,643.62	22.17	306.9
Physical Specifications							
Dimensions (WxDxH)(mm/in.)	440 x 330 x 44.5/17.32 x 12.99 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	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	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
Weight (kg/lb.)	4.205/9.27	2.26/4.98	4.83/10.63	3.04/6.7	5.13/11.3	0.65/1.43	0.66/1.46
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 adapter • Wall mounting kit	• Power cord • Power adapter • Wall mounting kit

Model	Switch 1900 Series						
	GS1900-10HP	GS1900-16	GS1900-24E	GS1900-24	GS1900-24HP	GS1900-48	GS1900-48HP
Switch class	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Hardware							
Total port count	10	16	24	26	26	50	50
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	-	16	24	24	-	48	24
1 Gigabit RJ-45 PoE ports	8	-	-	-	24	-	24
1 Gigabit SFP slots	2	-	-	2	2	2	2
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	-	-	-
10 Gigabit CX4 ports	-	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-
40-Gigabit QSFP+	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	20	32	48	52	52	100	100
Forwarding rate (Mpps)	14.9	23.8	35.7	39	39	74	74
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	-/Web GUI	-/Web GUI	-/Web GUI	-/Web GUI	-/Web GUI	-/Web GUI	-/Web GUI
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/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	-	-	-
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others							
MTBF (hr)	801,113	843,668	804,714	432,673	318,142	229,313	175,767
Heat dissipation (BTU/hr)	65.47	35.81	51.49	55	787.71	108.77	853
Physical Specifications							
Dimensions (WxDxH)(mm/in.)	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	440 x 200 x 44/ 17.32 x 7.87 x 1.73	440 x 330 x 45/ 17.32 x 13 x 1.77
Weight (kg/lb.)	0.72/1.59	0.97/2.13	1.56/3.44	2.09/4.60	4.03/8.88	2.9/6.39	4.24/9.35
Included accessories	<ul style="list-style-type: none"> Power cord Power adapter Wall mount kit 	<ul style="list-style-type: none"> Power cord Wall mount kit Rack mounting kit 	<ul style="list-style-type: none"> Power cord Wall mount kit Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power cord Rack mounting kit

Model	Switch 1200 Series		Switch 1100 Series				
	GS1200-5HP	GS1200-8HP	GS1100-8HP	GS1100-10HP	GS1100-16	GS1100-24	GS1100-24E
Switch class	Web Managed	Web Managed	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Unmanaged
Hardware							
Total port count	5	8	8	10	16	26	24
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	1	4	4	-	16	24	24
1 Gigabit RJ-45 PoE ports	4	4	4	8	-	-	-
1 Gigabit SFP slots	-	-	-	2	-	2	-
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	-	-	-
10 Gigabit CX4 ports	-	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-
40-Gigabit QSFP+	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	10	16	16	20	32	52	48
Forwarding rate (Mpps)	14.88	14.88	11.9	14.9	23.8	38.7	35.7
MAC addresses table	4k	4k	8 K	8 K	8 K	8 K	8 K
Management							
IPv6 management	Yes	Yes	-	-	-	-	-
CLI, Web GUI	-/Web GUI	-/Web GUI	-	-	-	-	-
iStacking (single IP management)	-	-	-	-	-	-	-
Out-of-band management port	-	-	-	-	-	-	-
Routing/Redundancy							
OSPF	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-
Static IP routing	-	-	-	-	-	-	-
VRRP	-	-	-	-	-	-	-
Spanning Tree (STP/MSTP/RSTP)	-	-	-	-	-	-	-
Redundant power support	-	-	-	-	-	-	-
Quality of Service							
Priority queues	4	4	4	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	-	-	-	-	-	-	-
Guest VLAN	Yes	Yes	-	-	-	-	-
IGMP snooping (v1/v2/v3)	Yes	Yes	-	-	-	-	-
MVR	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-
TACACS+/RADIUS	-	-	-	-	-	-	-
ACL security filter L2/L3/L4	-	-	-	-	-	-	-
Sflow	-	-	-	-	-	-	-
CPU protection	-	-	-	-	-	-	-
Green Features							
Fanless	-	-	Yes	Yes	Yes	Yes	Yes
IEEE Energy-Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others							
MTBF (hr)	1,393,888	1,297,717	631,254	1,000,070	1,297,212	1,206,050	929,704
Heat dissipation (BTU/hr)	132.23	128.16	306.9	89	27.62	50.13	49.10
Physical Specifications							
Dimensions (WxDxH)(mm/in.)	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	267 x 162 x 42/ 10.51 x 6.38 x 1.65
Weight (kg/lb.)	0.4/0.88	0.65/1.43	0.54/1.19	0.73/1.6	0.92/2.28	1.82/4.01	1.53/3.37
Included accessories	• 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	• Power cord • Wall mount kit • Rack mounting kit

Model	Switch 1100 Series					Rugged Switch Series	
	ES1100-8P	ES1100-16P	ES1100-16	ES1100-24	ES1100-24E	RGS200-12P	RGS100-5P
Switch class	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Managed	Unmanaged
Hardware							
Total port count	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	-	-	-	-	-	-	-
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 CX4 ports	-	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-
40-Gigabit QSFP+	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	1.6	3.2	3.2	4.8	4.8	24	10
Forwarding rate (Mpps)	1.2	2.4	2.4	3.6	3.6	17.86	7.44
MAC addresses table	1K	8K	8K	8K	8K	8K	2K
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	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	-
DVMRP	-	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security							
MAC freeze/intrusion lock	-	-	-	-	-	-	-
802.1X authentication	-	-	-	-	-	Yes	-
TACACS+/RADIUS	-	-	-	-	-	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	-	-
Others							
MTBF (hr)	164,603	75,888	322,400	295,895	295,895	568,430	568,430
Heat dissipation (BTU/hr)	232.22	232.22	8.53	13.30	13.30	869.55	426.25
Physical Specifications							
Dimensions (WxDxH)(mm/in.)	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	291 x 107.3 x 139/ 1.15 x 4.22 x 5.47
Weight (kg/lb.)	1.4/3.09	1.7/3.75	0.77/1.70	1.35/2.98	1.28/2.82	1.45/3.2	0.7/1.54
Included accessories	<ul style="list-style-type: none"> Power cord Wall mount kit Rack mounting kit 	<ul style="list-style-type: none"> Power cord Wall mount kit Rack mounting kit 	<ul style="list-style-type: none"> Power cord Wall mount kit Rack mounting kit 	<ul style="list-style-type: none"> Power cord Wall mount kit Rack mounting kit 	<ul style="list-style-type: none"> Power cord Wall mount kit Rack mounting kit 	<ul style="list-style-type: none"> Wall mount kit DIN-rail mounting kit 	<ul style="list-style-type: none"> Wall mount kit DIN-rail mounting kit



ZyXEL

USG110

UNIFIED SECURITY GATEWAY

ZyXEL

USG210

UNIFIED SECURITY GATEWAY

ZyXEL

USG1100

UNIFIED SECURITY GATEWAY

ZyXEL

USG1900

UNIFIED SECURITY GATEWAY

ZyXEL

USG60

UNIFIED SECURITY GATEWAY

ZyXEL

USG60W

UNIFIED SECURITY GATEWAY

Security Appliances and Services

- 61 Next-Generation Unified Security Gateway
- 64 Unified Security Gateways
- 64 VPN Firewalls
- 66 Appliances and Services



Next Generation Unified Security Gateway Quick Finder

Features/ Scalability



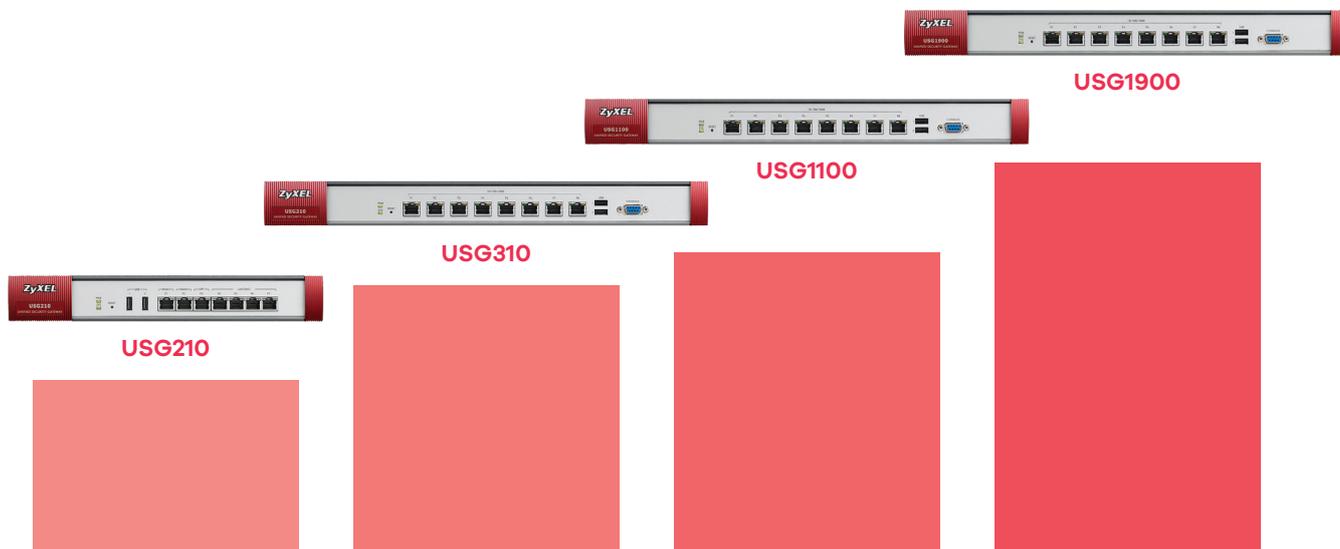
Business Scale

Small

	Performance Series		Advanced Series
Model	USG40/40W	USG60/60W	USG110
Firewall throughput	400 Mbps	1000 Mbps	1600 Mbps
UTM throughput (AV and IDP)	50 Mbps	90 Mbps	250 Mbps
Managed AP number (default/max.)	2/18	2/18	2/34
Multi-WAN	Yes	Yes	Yes
Unified security policy	Yes	Yes	Yes
SSL inspection	-	-	Yes
Device HA	-	-	Yes
Device HA Pro	-	-	Yes
Port grouping	Yes	Yes	Yes
Easy mode	Yes	Yes	-
Cloud Helper	Yes	Yes	Yes
PCI DSS compliance	Yes	Yes	Yes
Content Filtering 2.0	Yes	Yes	Yes
Hotspot Management	-	-	-

Note:

- Performance: Actual performance may vary depending on network conditions and activated applications.
- Firewall throughput : Maximum throughput based on RFC 2544 (1,518-byte UDP packets).
- IDP/AV throughput: Measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.



Medium to Large

	Extreme Series			
	USG210	USG310	USG1100	USG1900
	1900 Mbps	5000 Mbps	6000 Mbps	7000 Mbps
	300 Mbps	400 Mbps	500 Mbps	600 Mbps
	2/34	2/34	2/66	2/66
	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	Yes	-	-	-
	-	-	-	-
	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	-	Yes	Yes	Yes

- UTM (AV and IDP) throughput: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.
- Product availability varies by country and region. Please contact local sales team regarding availability in your region.
- Max managed AP number with firmware ZLD4.15 or later.

VPN Firewall Quick Finder

Features/
Scalability



USG20-VPN



USG20W-VPN

Business
Scale

Small Business or
Branch Office

Model	Remote Offices/ Small Businesses (SBs)	
	USG20-VPN	USG20W-VPN
VPN throughput (Mbps)	90	90
Max. concurrent IPsec VPN tunnels	10	10
Concurrent SSL VPN users (default/max.)	5/15	5/15
Managed AP number (default/max.)	-	-
Multi-WAN	Yes	Yes
Unified security policy	Yes	Yes
SSL inspection	-	-
Device HA	-	-
Device HA Pro	-	-
Port grouping	Yes	Yes
Easy mode	Yes	Yes
Cloud Helper	Yes	Yes
PCI DSS compliance	Yes	Yes
Content Filtering 2.0	Yes	Yes
Hotspot Management	-	-

Note:

- Performance: Actual performance may vary depending on network conditions and activated applications.
- Firewall throughput: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).
- Product availability varies by country and region. Please contact local sales team regarding availability in your region.



Small Business

Medium to Large Businesses

	Remote Offices/ Small Businesses (SBs)	Small- and Medium-sized Businesses (SMBs)	
	ZyWALL 110	ZyWALL 310	ZyWALL 1100
	400	650	800
	100	300	1000
	25/150	50/150	250/500
	2/34	2/34	2/66
	Yes	Yes	Yes
	Yes	Yes	Yes
	Yes	Yes	Yes
	Yes	Yes	Yes
	Yes	Yes	Yes
	Yes	-	-
	-	-	-
	Yes	Yes	Yes
	Yes	Yes	Yes
	Yes	Yes	Yes
	-	Yes	Yes

Zyxel security solutions

Network security that works

Businesses deploy network security appliances for two main purposes: to protect company resources against a multitude of threats and to enable secured communications between multiple locations via Virtual Private Network (VPN). For many years, Zyxel's highly-acclaimed Unified Security Gateway (USG) Series has helped businesses satisfy all these demands. Fortifying businesses against a new generation of threats, Zyxel is offering a new line of Next Generation Unified Security Gateways that deliver unmatched capacity, performance and protection for businesses of all sizes.

On the other hand, business operations today are more mobile, more global, and more dynamic than ever. This, combined with the use of advanced or bandwidth consuming applications in the workplace, has created great demand for even faster VPN and firewall performance. To satisfy this demand, Zyxel has introduced the all-new ZyWALL Series VPN Firewalls. Zyxel's new ZyWALL VPN Firewalls are business-grade VPN gateways fine-tuned to deliver the fastest VPN and firewall performance for the most performance-demanding deployments.

Next Generation USG Series Unified Security Gateways

Next Generation Security and Application Intelligence

- Next Generation Firewall (NGFW) solution
- Integrated WLAN controller
- Application Intelligence and Control
- Intrusion Detection and Prevention (IDP)
- Anti-Virus (Kaspersky)
- Anti-Spam
- Content Filtering 2.0
- VPN connectivity
- Firewall



Next Generation Firewall

Zyxel's Next Generation Unified Security Gateways offer businesses robust, user-aware security all in one package. They offer multi-threat protection and effective policy enforcement with a wide range of mechanisms. The all-in-one design helps businesses minimize management efforts and total cost of ownership (TCO), while maximizing network security.



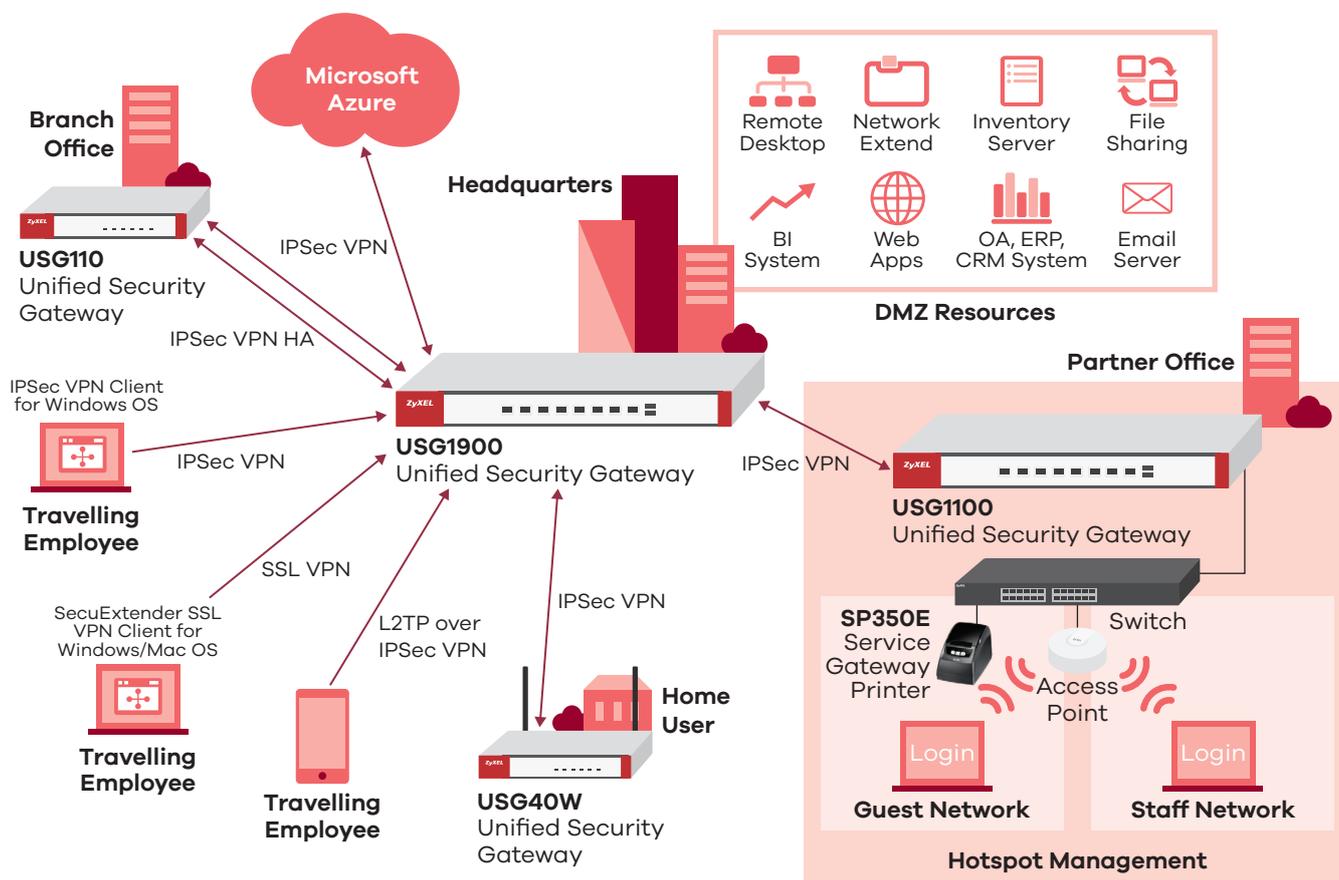
ZyWALL Series VPN Firewalls

Fine-tuned for Ultra-fast VPN Performance

- Purpose-built VPN gateway solution
- Ultra-fast VPN connectivity
- Ultra-fast firewall performance

Zero-configuration Remote Access

The ZyWALL Series VPN Firewalls feature Easy VPN to provide auto-provisioned client-to-site IPsec VPN setup. A wizard is available with the Zyxel IPsec VPN client software that automatically retrieves the VPN configuration file from the remote ZyWALL VPN Firewall.



myZyxel

Zyxel's new online service platform

myZyxel is the license and service lifecycle management portal for Zyxel's business customers. Built on a cloud-based infrastructure, it delivers stable and efficient services to our customers all over the world. myZyxel offers an array of enhancements that enable our channel partners to develop their businesses and support their end customers.

Service portal: <https://portal.myzyxel.com/>

Easy Registration

myZyxel allows users to register devices and activate services online anytime, anywhere as a supplemental service to traditional registration directly through the device GUI.

Grow Your Business

myZyxel provides a separate sign-in portal for channel partners and customers. With permission from customers, resellers can view and manage registered devices and status for their customers to ensure continuity of subscribed services – especially in respect of security concerns.



OneSecurity

Zyxel's new security information website

Zyxel OneSecurity.com provides a new resource of complimentary network security information and know-hows for small- to medium-sized businesses (SMBs) and IT departments to protect their networks and operations from security risks of the digital age.

Service Portal: <http://onesecurity.zyxel.com/>

Comprehensive Knowledge

Zyxel OneSecurity.com provides a unified source of information ranging from updates for the latest security threats and advisories to troubleshooting walkthroughs as well as FAQs to better secure your network and to guard against threats.

Professional Advisory

Zyxel's USG and ZyWALL Series products integrate OneSecurity.com service in their GUI, so the IT staff can quickly and easily catch up with new threats and take effective actions immediately.



[OneSecurity.com](http://onesecurity.com)



USG1900/USG1100

Unified Security Gateway — Extreme Series



- Ultra-high performance Next Generation Firewall (NGFW) for medium to large businesses
- Enhanced manageability with unified security policy and Single Sign-On (SSO) support
- Multi-threat protection with firewall, Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, Application Intelligence, and SSL inspection
- Robust SSL, IPsec and L2TP over IPsec VPN connectivity and VPN High Availability (HA)
- Hotspot Management and built-in WLAN controller for centralized AP management and effortless WLAN scalability



USG1100

8 Giga ports (configurable), 2 USB



USG1900

8 Giga ports (configurable), 2 USB

Specifications

Security features	Unified security policy, firewall, NAT, hybrid VPN (IPsec/SSL), UTM, application intelligence, SSL inspection, user-aware management, PCI DSS compliance, Geo IP Blocking	Networking	IPv4, IPv6, static routing, policy routing, RIP2/OSPF, VLAN tagging (802.1q), DDNS, DHCP server/client/relay, PPTP, L2TP, 3G/LTE WAN (USB dongle), WLAN controller, Hotspot Management
UTM support	Content Filtering 2.0, Anti-Virus, ADP, IDP, Anti-Spam	Authentication	Web authentication, local database, RADIUS, LDAP, Microsoft AD, SSO (single sign-on)
Bandwidth management	Priority bandwidth utilization, guaranteed/maximum bandwidth, dual-WAN load balancing, user-based policy management	System management	SNMPv2/v3, Web GUI (HTTP and HTTPS), CLI, vantage report, console, dual image, Cloud Helper
Redundancy	Dual-WAN failover and fall back, device HA Pro (active-passive), VPN HA, 3G/LTE backup		

USG110/210/310

Unified Security Gateway — Advanced Series



- Mid-range Next Generation Firewall (NGFW) for small and medium-sized businesses
- Comprehensive 3G/LTE USB dongle compatibility and multi-WAN load-balancing, failover and fall back support
- Built-in WLAN controller for centralized AP management and effortless WLAN scalability
- Multi-threat protection with firewall, Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, Application Intelligence, and SSL inspection
- Robust SSL, IPsec and L2TP over IPsec VPN connectivity and VPN High Availability (HA)



USG110

7 Giga ports, 2 USB (multi-WAN & mobile broadband)



USG310

8 Giga ports (configurable), 2 USB



USG210

7 Giga ports, 2 USB (multi-WAN & mobile broadband)

Specifications

Security features	Unified security policy, firewall, NAT, hybrid VPN (IPsec/SSL), UTM, application intelligence, SSL inspection, user-aware management, PCI DSS compliance, GeoIP blocking	Networking	IPv4, IPv6, static routing, policy routing, RIP2/OSPF, VLAN tagging (802.1q), DDNS, DHCP server/client/relay, PPTP, L2TP, 3G/LTE WAN (USB dongle), WLAN controller
UTM support	Content Filtering 2.0, Anti-Virus, ADP, IDP, Anti-Spam	Authentication	Web authentication, local database, RADIUS, LDAP, Microsoft AD, SSO (single sign-on)
Bandwidth management	Priority bandwidth utilization, guaranteed/maximum bandwidth, dual-WAN load balancing, user-based policy management	System management	SNMPv2/v3, Web GUI (HTTP and HTTPS), CLI, vantage report, console, dual image, Cloud Helper
Redundancy	Dual-WAN failover and fall back, device HA Pro (active-passive), VPN HA, 3G/LTE backup		

USG40/40W/60/60W

Unified Security Gateway — Performance Series



- Desktop Next Generation Firewall (NGFW) for small businesses
- Integrated single-radio (USG40W) or dual-radio (USG60W) wireless access point
- Multi-threat protection with firewall, Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, and Application Intelligence
- Robust SSL, IPsec and L2TP over IPsec VPN connectivity
- Built-in WLAN controller for centralized AP management and effortless WLAN scalability



USG40

5 Giga ports, 1 USB (dual-WAN & mobile broadband)



USG60

6 Giga ports, 2 USB (dual-WAN & mobile broadband)



USG40W

5 Giga ports, 1 USB (dual-WAN & mobile broadband), 802.11 b/g/n



USG60W

6 Giga ports, 2 USB (dual-WAN & mobile broadband), 802.11 a/b/g/n

Specifications

Security features	Unified security policy, firewall, NAT, hybrid VPN (IPsec/SSL), UTM, application intelligence, user-aware management, PCI DSS compliance, GeoIP blocking	Networking	IPv4, IPv6, static routing, policy routing, RIP2/OSPF, VLAN tagging (802.1q), DDNS, DHCP server/client/relay, PPTP, L2TP, 3G/LTE WAN (USB dongle), WLAN controller, built-in AP (USG60W & USG40W)
UTM support	Content Filtering 2.0, Anti-Virus, ADP, IDP, Anti-Spam	Authentication	Web authentication, local database, RADIUS, LDAP, Microsoft AD, SSO (single sign-on)
Bandwidth management	Priority bandwidth utilization, guaranteed/maximum bandwidth, dual-WAN load balancing, user-based policy management	System management	SNMPv2/v3, Web GUI (HTTP and HTTPS), CLI, vantage report, console, dual image, Cloud Helper, Easy Mode
Redundancy	Dual-WAN failover and fall back, VPN HA, 3G/LTE backup		

USG20/20W

Unified Security Gateway



USG20
5 Giga ports (single-WAN), 1 USB



USG20W
5 Giga ports (single-WAN), 1 USB,
802.11 b/g/n

Specifications

Max. concurrent sessions*	10,000
Operating mode	Routing/NAT mode, bridge mode, mix (routing+bridge) mode
UTM support	Content Filter with Web firewall feature, Anti-Spam

- Robust security without sacrificing performance
- Zero-configuration remote access with Easy VPN
- ICSA Firewall, IPSec certification
- Content filter stops malware and Web threats
- Non-stop Internet access with multiple WAN and 3G backups

Security	Firewall, Hybrid VPN (IPSec/SSL/L2TP over IPSec), user-aware management, UTM
Network	VLAN Tagging (802.1q), 3G/WLAN support Web GUI (HTTP and HTTPS), CLI, Vantage CNM, Vantage Report

*: Maximum sessions measured using the industry standard IXIA IxLoad testing tool

USG20-VPN/USG20W-VPN

VPN Firewall



USG20-VPN
5 Giga ports, 1 Fiber port (SFP),
1 USB (dual-WAN & mobile
broadband)



USG20W-VPN
5 Giga ports, 1 Fiber port (SFP),
1 USB (dual-WAN & mobile
broadband), 802.11 a/b/g/n/ac

Specifications

Max. TCP concurrent sessions*	20,000
Network functions	HTTP, HTTPS, SMTP, DHCP, PPPoE, PPTP, NA, VLAN RADIUS authentication, RADIUS VSA support
High availability	Device failure detection and notification, M-WAN LB, failover/fallback, mobile WAN support, auto fallback

- Comprehensive supports to IPv6
- Robust hybrid VPN (IPSec/SSL/L2TP)
- Superior wireless performance and signal quality with 802.11ac (2.4G/5G) Wi-Fi support
- High-performance SPI Firewall
- Bandwidth management
- Dual-WAN (SFP and Eth WAN) load-balancing and failover for robust connection

Firewall	Routing and transparent (Bridge) modes, zone-based access control list, stateful packet inspection, user-aware policy enforcement, SIP/H.323 NAT traversal, ALG supports custom ports, role-based administration, multiple administrator login, multi-lingual Web GUI (HTTPS /HTTP), object-based configuration, command line interface (Console/Web console/SSH/TELNET), SNMPV2c/v3 (MIB-II), system configuration rollback, firmware upgrade via FTP/Web GUI
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*: Maximum sessions measured using the industry standard IXIA IxLoad testing tool

ZyWALL 110/310/1100

VPN Firewall



- Multi-core CPUs deliver up to 6 Gbps firewall throughput and 800 Mbps VPN throughput
- Up to 15x faster firewall performance and 4.4x faster VPN performance than preceding models
- More secure VPN connections with SHA-2 cryptographic
- VPN High Availability (HA) with dual-WAN failover and fallback support
- L2TP/IPSec support for iOS, Android and Windows mobile devices
- Auto-provisioned client-to-site IPSec setup with Easy VPN



ZyWALL 110

7 Giga ports, 2 USB (multi-WAN & mobile broadband)



ZyWALL 1100

8 Giga ports (configurable), 2 USB



ZyWALL 310

8 Giga ports (configurable), 2 USB

Specifications

Max. concurrent sessions*	60,000/200,000/500,000 (ZyWALL 110/310/1100)
Network functions	HTTP, HTTPS, SMTP, DHCP, PPPoE, PPTP, NAT, VLAN RADIUS authentication, RADIUS VSA support
Max. concurrent IPSec VPN tunnels	100/300/1,000 (ZyWALL 110/310/1100)
Max. concurrent SSL VPN users	150/150/500 (ZyWALL 110/310/1100)
High availability	Active-passive mode, Device failure detection and notification, ICMP and TCP ping check, Link monitoring, Auto-sync configurations

Firewall

Routing and transparent (Bridge) modes, zone-based access control list, stateful packet inspection, user-aware policy enforcement, SIP/H.323 NAT traversal, ALG supports custom ports, Role-based administration, multiple administrator login, multi-lingual Web GUI (HTTPS/HTTP), object-based configuration, command line interface (Console/Web console/SSH/TELNET), SNMPv2c/v3 (MIB-II), system configuration rollback, firmware upgrade via FTP/Web GUI

*: Maximum sessions measured using the industry standard IXIA IxLoad testing tool

Anti-Virus

Software Subscriptions

- Integrate Kaspersky's leading technology SafeStream II gateway Anti-Virus
- Anti-malware including viruses, Trojans, worms, spyware and rogue ware
- Fast stream-based scanning provides real-time protection with no file size limitation
- High detection rate without sacrificing performance
- Cloud-optimized database supported

Specifications

Compatible security appliances	NG USG Extreme Series/Advanced Series/Performance Series ZyWALL Series
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Support for various protocols	HTTP, FTP, SMTP, POP3 and IMAP4
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Scanning of archives and packed objects	ZIP, PKZIP e, GZIP and RAR
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SSL Inspection supported	Yes
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Anti-Spam

Software Subscriptions

- Transparent mail interception via SMTP and POP3 protocols
- Zero-hour virus outbreak protection
- Sender-based IP reputation filter
- Blacklist and whitelist support

Specifications

Compatible security appliances	USG Series VPN Firewall Series
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Configurable ports	POP3 and SMTP
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Content Filtering 2.0

Software Subscriptions

- Dynamic, cloud-based URL filtering database
- Bandwidth regulation by filtering
- SafeSearch support for social networking content constraints
- IPv6 GeolP Blocking covers management of billions of IOT and mobile devices.
- GeolP maps and tracks IP addresses from the cloud into real geographical locations

Specifications

Compatible security appliances	USG Series VPN Firewall Series
Covering content	Security threat, Adult, Illegal, Life information, Web entertainment and services
SafeSearch engine supported	Yahoo, Google, Bing and Yandex
Blocking rule	Category, URL, keyword, Blacklist
SSL Inspection supported	Yes

Intrusion Detection and Prevention (IDP)

Software Subscriptions

- Routing and transparent (bridge) mode
- Detects and alerts you of suspicious or malicious activity
- Customizable protection profile
- Customized signatures supported

Specifications

Compatible security appliances	NG USG Extreme Series/Advanced Series/ Performance Series ZyWALL Series
Covering content	Dos/DDos, Buffer overflow, Access control, Scan, Trojan/Backdoor, Malware, Web attack
Detection pattern	Signature-based, behavior-based
SSL Inspection supported	Yes

Application Intelligence

Software Subscriptions

- Granular control over the most important applications
- Identifies and controls application behavior
- Application bandwidth management
- Supports user authentication
- Real-time statistics and reports

Specifications

Compatible security appliances	NG USG Extreme Series/Advanced Series/Performance Series ZyWALL Series
Bandwidth control mode	Prioritize, Throttle, Block
Detection pattern	Signature-based, behaviour-based
Category	Instant messaging, Streaming Media, Database, Remote Access Terminals, Bypass Proxies and Tunnels, Network Protocols, Social Network, P2P, Business, Games, Web, Web IM, Mobile, file Transfer, voice over IP, network Management, security Update, Mail and collaboration, private protocol.

AP Controller

Software Subscriptions

- Integrated AP controller as central management to provide flexible deployment options
- AP auto discovery and auto provisioning

Specifications

Compatible security appliances	NG USG Extreme Series/Advanced Series/Performance Series ZyWALL Series
Wireless QoS	AP load balancing, Smart Classroom Load balancing, WLAN Station bandwidth limiting by per-ssid
Authentication, authorization, accounting	MAC authentication with local database, MAC authentication with external Radius, Captive Portal (internal & external), Captive Portal customizable, web login page, Dynamic guest account, RADIUS authentication, Microsoft AD authentication, LDAP authentication, embedded RADIUS server, RADIUS accounting, RADIUS Session resumption, Log-out page

Device High Availability Pro

Software Subscriptions

- Device failure detection and notification
- Supports ICMP and TCP ping check
- Configuration auto-sync and link monitoring
- Smart handover through dedicated Heartbeat Link
- NAT/Firewall/VPN Sessions synchronization

Specifications

Compatible security appliances	NG USG Extreme Series/Advanced Series ZyWALL Series
When failover occurs	Connections keep alive
Mode	Active - Passive
Synchronization data	Configuration file/TCP sessions (IPv4/IPv6) /IPSec VPN sessions/Login and logout information/License and Signatures status /AP Image/Dynamic DHCP table/ARP table/UDP table/IP MAC binding table/SIP connection table

* Firmware ZLD4.20 or later

Hotspot Management

Software Subscriptions

- High speed Internet access
- Tier of service
- Log record for regulatory compliance
- Premium security control
- Various Network access control

Specifications

Compatible security appliances	USG 310/1100/1900 ZyWALL 310/1100
Billing and free-time service	Build-in Accounting - Time to Finish Accumulation Paypal/Authroiz.net
Authentication	Advertisement link Walled garden SMS
Others	SP350E Printer Manager 3rd Party Social Login

* Firmware ZLD4.20 or later

VPN Client Software

SSL VPN/IPSec VPN Client Software

- Providing solutions of both SSL VPN (SecuExtender software) and IPSec VPN remote access
- Enhanced layered security incorporating Zyxel security appliances
- Easy and intelligent installation reducing IT effort

Specifications

Compatible security appliances

- SecuExtender SSL VPN:
- USG series and ZyWALL series with firmware version ZLD V4.10 or above
- IPSec VPN:
- All models in the USG Series and all models in the ZyWALL Series
-

Supported operating systems

- SecuExtender SSL VPN:
- Windows 10/8.1/8/7/XP
 - MAC OS 10.7 or later (license required)
- IPSec VPN (license required):
- Windows 8/7/10/Vista/Server 2008/Server 2003/XP
-

SSO Agent

Single Sign-on Agent

- Simplified single sign in to multiple resources
- Improved user experience without repetitive logging in various web browsers
- Secure communication via shared key encryption for data transmission protection
- Login mechanism works with any protocol, not just HTTP

Specifications

Compatible security appliances

Next-Gen Unified Security Gateway (USG) series and ZyWALL VPN Firewall series with firmware version ZLD V4.10 or above

Supported operating systems

Windows 10 Pro (and above),
Windows Server 2008,
Windows Server 2008 R2,
Windows Server 2012,
Windows Server 2012 R2

Vantage Report

Reporting Analyser for USG and ZyWALL

- Central editing of graphic reports
- Pre-defined reports
- Reports forwarded via e-mail
- Supports USG and ZyWALL
- Licenses for 1, 5, 25 and 100 devices

Specifications

Compatible security appliances	All models in the USG Series and all models in the ZyWALL Series
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Supported operating systems	Windows 2003/Windows Vista/Window XP 32 bit/Window XP 64 bit/ Vista 32 bit/Vista 64 bit/Window 7 32 bit/ Window 7 64 bit
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Cloud CNM SecuManager

Security Appliance Management

- Perform management and backup configuration from a centralized center
- Apply manual or scheduled firmware upgrades to all managed gateways
- VPN provisioning with different scenarios
- Centralized display and management of event/alarm notifications
- Manage a wide set of system restore/backup and monitoring

Specifications

Compatible security appliances	Next-Gen Unified Security Gateway (USG) series and VPN Firewall series with firmware version ZLD 4.13 or above
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Supported operating systems	64 bits OS — Debian 7.x or RHEL 6.5 & above systems
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* Available in Q4, 2016

Subscription Ordering Guide

Security

Next Generation Unified Security Gateway

Product	Anti-Virus	Application Intelligence & IDP	Content Filtering 2.0	Anti-Spam
USG1900	1 year 2 years	1 year 2 years	1 year 2 years	1 year 2 years
USG1100				
USG310				
USG210				
USG110				
USG60/60W				
USG40/40W				

Unified Security Gateway

Product	Content Filtering	Anti-Spam
USG20/20W	1 year/2 years	1 year/2 years

VPN

Next Generation Unified Security Gateway

Product	SSL VPN Tunnels	SecuExtender SSL VPN Client ^{*1}	IPSec VPN Client
USG1900	Add 5 Tunnels Add 10 Tunnels Add 50 Tunnels	For 1 client For 5 clients For 10 client	For 1 client For 5 clients For 10 clients For 50 clients
USG1100			
USG310			
USG210			
USG110			
USG60/60W	Add 5 Tunnels		
USG40/40W	Add 10 Tunnels		

VPN Firewall

Product	SSL VPN Tunnels	SecuExtender SSL VPN Client ^{*1}	IPSec VPN Client
ZyWALL 1100	Add 5 Tunnels Add 10 Tunnels Add 50 Tunnels	For 1 client For 5 clients For 10 client	For 1 client For 5 clients For 10 clients For 50 clients
ZyWALL 310			
ZyWALL 110			
USG20-VPN/ USG20W-VPN	Add 5 Tunnels Add 10 Tunnels		

Unified Security Gateway

Product	IPSec VPN Client
USG20/20W	For 1 client For 5 clients For 10 clients For 50 clients

*1: Support OS: MAC OS 10.7 or later

Connectivity

Next Generation Unified Security Gateway

Product	Concurrent Device Upgrade* ¹	Hotspot Management* ¹	Managed APs	HA Pro* ¹	Vantage Report
USG1900	100 nodes	1 year/one-time	Add 4 APs Add 8 APs	One-time	For 1 device For 5 devices For 25 devices For 100 devices
USG1100	300 nodes				
USG310	100 nodes	-	-	-	
USG210					
USG110					
USG60/60W	-	-	-	-	
USG40/40W	-	-	-	-	

VPN Firewall

Product	Concurrent Device Upgrade* ¹	Hotspot Management* ¹	Managed APs	HA Pro* ¹	Vantage Report
ZyWALL 1100	100 nodes 300 nodes	1 year perpetual (one-time)	Add 4 APs Add 8 APs	One-time	For 1 device For 5 devices For 25 devices For 100 devices
ZyWALL 310	100 nodes				
ZyWALL 110		-	-	-	
USG20-VPN USG20W-VPN	-	-	-	-	

Unified Security Gateway

Product	Vantage Report
USG20/20W	For 1 device For 5 devices For 25 devices For 100 devices

*1: With firmware ZLD 4.20 or later

Access Point Compatibility List

Product	NWA5120 Series	NWA5000 Series	NWA3000-N Series	WAC6500 Series
	Unified Access Point	Managed Access Point	Unified Pro Access Point	Unified Pro Access Point
Models	NWA5121-NI NWA5121-N NWA5123-NI NWA5301-NJ NWA5123-AC	NWA5160N NWA5560-N NWA5550-N	NWA3160-N NWA3560-N NWA3550-N	WAC6503D-S WAC6502D-S WAC6502D-E WAC6553D-E WAC6103D-I
Functions				
Central management	Yes	Yes	Yes	Yes
Auto provisioning	Yes	Yes	Yes	Yes
Data forwarding	Local bridge	Local bridge	Local bridge	Local bridge

Next Generation Unified Security Gateway

Model	Extreme Series		Advanced Series			
	USG1900	USG1100	USG310	USG210	USG110	
Hardware Specifications						
10/100/1000 Mbps RJ-45 ports	8 (configurable)	8 (configurable)	8 (configurable)	4 x LAN/DMZ, 2 x WAN, 1 x OPT		
USB ports	2	2	2	2	2	
Console port	Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (DB9)	
Rack-mountable	Yes	Yes	Yes	Yes	Yes	
Fanless	-	-	-	-	-	
System Capacity & Performance¹						
SPI firewall throughput (Mbps) ²	7,000	6,000	5,000	1,900	1,600	
VPN throughput (Mbps) ³	900	800	650	500	400	
IDP throughput (Mbps) ⁴	650	550	450	350	300	
AV throughput (Mbps) ⁴	600	500	400	300	250	
UTM throughput (AV and IDP) ⁴	600	500	400	300	250	
Concurrent devices (default/max.)	1,500/2,000	800/1,500	500/800	200/300	200/300	
Max. TCP concurrent sessions ⁵	500,000	500,000	200,000	80,000	60,000	
Max. concurrent IPsec VPN tunnels ⁶	2,000	1,000	300	200	100	
Concurrent SSL VPN users (default/max.)	250/750	250/500	50/150	35/150	25/150	
Customizable zones	Yes	Yes	Yes	Yes	Yes	
IPv6 support	Yes	Yes	Yes	Yes	Yes	
VLAN interface	128	128	64	32	16	
WLAN Management						
AP Controller (APC) support	Yes	Yes	Yes	Yes	Yes	
Managed AP number (default/max.)	2/66	2/66	2/34	2/34	2/34	
Key Software Features						
Firewall	Yes	Yes	Yes	Yes	Yes	
Virtual Private Network (VPN)	Yes (IPSec, SSL, L2TP over IPSec)					
Bandwidth management	Yes	Yes	Yes	Yes	Yes	
Logging and monitoring	Yes	Yes	Yes	Yes	Yes	
SSL (HTTPS) inspection	Yes	Yes	Yes	Yes	Yes	
Unified security policy	Yes	Yes	Yes	Yes	Yes	
EZ mode	-	-	-	-	-	
Cloud Helper	Yes	Yes	Yes	Yes	Yes	
Device HA	Yes	Yes	Yes	Yes	Yes	
License Service						
Anti-Virus (AV)	Yes	Yes	Yes	Yes	Yes	
Intrusion Detection and Prevention (IDP) & Application Intelligence	Yes	Yes	Yes	Yes	Yes	
Anti-Spam	Yes	Yes	Yes	Yes	Yes	
Content Filtering (CF2.0) ⁷	Yes	Yes	Yes	Yes	Yes	
Device HA Pro	Yes	Yes	Yes	Yes	Yes	
Hostpot Management	Yes	Yes	Yes	-	-	
Power Requirements						
Power input	100 - 240 V AC, 50/60 Hz, 1.3 A max.			12 V DC, 3.33 A max.	12 V DC, 3.33 A max.	
Max. power consumption (watt)	58.5	58.5	58.5	37.0	37.0	
Heat dissipation (BTU/hr)	199.61	199.61	199.61	126.25	126.25	
Physical Specifications						
Item	Dimensions (WxDxH)(mm/in.)	430 x 250 x 44/ 16.93 x 9.84 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73	300 x 178 x 44/ 11.81 x 7 x 1.73	300 x 178 x 44/ 11.81 x 7 x 1.73
	Weight (kg/lb.)	3.3/7.28	3.3/7.28	3.3/7.28	2/4.4	2/4.4
Packing	Dimensions (WxDxH)(mm/in.)	519 x 392 x 163/ 20.43 x 15.43 x 6.42	519 x 392 x 163/ 20.43 x 15.43 x 6.42	519 x 392 x 163/ 20.43 x 15.43 x 6.42	351 x 149 x 243/ 13.82 x 5.87 x 9.57	351 x 149 x 243/ 13.82 x 5.87 x 9.57
	Weight (kg/lb.)	4.8/10.58	4.84/10.58	4.8/10.58	3.264/7.20	3.264/7.20
Included accessories	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power adapter • Power cord • Rack mounting kit	• Power adapter • Power cord • Rack mounting kit	
Environmental Specifications						
Operating environment	Temperature	0°C to 40°C/32°F to 104°F				
	Humidity	10% to 90% (non-condensing)				
Storage environment	Temperature	-30°C to 70°C/-22°F to 158°F				
	Humidity	10% to 90% (non-condensing)				
MTBF (hr)	560,811.5	560,811.5	560,811.5	787,109.3	787,109.3	
Certifications						
EMC	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI					
Safety	LVD (EN60950-1), BSMI					

Note:

*: This matrix with firmware ZLD 4.20 or later.

*1: Actual performance may vary depending on network conditions and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: AV and IDP throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.

*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.

*6: Including Gateway-to-Gateway and Client-to-Gateway.

*7: SafeSearch function in CF2.0 need to enable SSL Inspection firstly and not for small business models.

Next Generation Unified Security Gateway

Model	Performance Series				
	USG60W	USG60	USG40W	USG40	
Hardware Specifications					
10/100/1000 Mbps RJ-45 ports	4 x LAN/DMZ, 2 x WAN	4 x LAN/DMZ, 2 x WAN	3 x LAN/DMZ, 1 x WAN, 1 x OPT	3 x LAN/DMZ, 1 x WAN, 1 x OPT	
USB ports	2	2	1	1	
Console port	Yes (DB9)	Yes (DB9)	Yes (RJ-45)	Yes (RJ-45)	
Rack-mountable	Yes	Yes	-	-	
Fanless	Yes	Yes	Yes	Yes	
System Capacity & Performance¹					
SPI firewall throughput (Mbps) ²	1,000	1,000	400	400	
VPN throughput (Mbps) ³	180	180	100	100	
IDP throughput (Mbps) ⁴	120	120	55	55	
AV throughput (Mbps) ⁴	90	90	50	50	
UTM throughput (AV and IDP) ⁴	90	90	50	50	
Concurrent devices (default/max.)	128	128	64	64	
Max. TCP concurrent sessions ⁵	40,000	40,000	20,000	20,000	
Max. concurrent IPsec VPN tunnels ⁶	40	40	20	20	
Concurrent SSL VPN users (default/max.)	5/20	5/20	5/15	5/15	
Customizable zones	Yes	Yes	Yes	Yes	
IPv6 support	Yes	Yes	Yes	Yes	
VLAN interface	16	16	8	8	
WLAN Management					
AP Controller (APC) support	Yes	Yes	Yes	Yes	
Managed AP number (default/max.)	2/18	2/18	2/18	2/18	
Key Software Features					
Firewall	Yes	Yes	Yes	Yes	
Virtual Private Network (VPN)	Yes (IPSec, SSL, L2TP over IPSec)				
Bandwidth management	Yes	Yes	Yes	Yes	
Logging and monitoring	Yes	Yes	Yes	Yes	
SSL (HTTPS) inspection	-	-	-	-	
Unified security policy	Yes	Yes	Yes	Yes	
EZ mode	Yes	Yes	Yes	Yes	
Cloud Helper	Yes	Yes	Yes	Yes	
Device HA	-	-	-	-	
License Service					
Anti-Virus (AV)	Yes	Yes	Yes	Yes	
Intrusion Detection and Prevention (IDP) & Application Intelligence	Yes	Yes	Yes	Yes	
Anti-Spam	Yes	Yes	Yes	Yes	
Content Filtering (CF2.0) ⁷	Yes	Yes	Yes	Yes	
Device HA Pro	-	-	-	-	
Hostpot Management	-	-	-	-	
Power Requirements					
Power input	12 V DC, 3.0 A max.	12 V DC, 3.0 A max.	12 V DC, 2.0 A max.	12 V DC, 2.0 A max.	
Max. power consumption (watt)	28.0	19.0	17.0	14.0	
Heat dissipation (BTU/hr)	95.54	64.83	58.01	47.77	
Physical Specifications					
Item	Dimensions (WxDxH)(mm/in.)	272 x 187 x 36/ 10.71 x 7.36 x 1.42	242 x 176 x 36/ 9.53 x 6.93 x 1.42	216 x 143 x 33/ 8.50 x 5.63 x 1.30	216 x 143 x 33/ 8.50 x 5.63 x 1.30
	Weight (kg/lb.)	1.46/3.23	1.25/2.76	0.91/2	0.89/1.96
Packing	Dimensions (WxDxH)(mm/in.)	427 x 247 x 73/ 16.81 x 9.72 x 2.87	394 x 240 x 101/ 15.51 x 9.45 x 3.98	381 x 216 x 79/ 15.00 x 8.50 x 3.11	381 x 216 x 79/ 15.00 x 8.50 x 3.11
	Weight (kg/lb.)	2.23 (W/O bracket) 2.42 (w bracket)	2.25/4.96	1.63/3.59	1.57/3.46
Included accessories	<ul style="list-style-type: none"> Power adapter Rack mounting kit (optional, by regions) Antenna 	<ul style="list-style-type: none"> Power adapter Rack mounting kit 	<ul style="list-style-type: none"> Power adapter DB9 - RJ-45 cable for console connection Antenna 	<ul style="list-style-type: none"> Power adapter DB9 - RJ-45 cable for console connection 	
Environmental Specifications					
Operating environment	Temperature	0°C to 40°C/32°F to 104°F			
	Humidity	10% to 90% (non-condensing)			
Storage environment	Temperature	-30°C to 70°C/-22°F to 158°F			
	Humidity	10% to 90% (non-condensing)			
MTBF (hr)	497,644	815,463.9	386,931.7	414,329.4	
Certifications					
EMC	FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI				
Safety	LVD (EN60950-1), BSMI				

Wireless Specifications

	USG60W	USG40W
Standard compliance	802.11 a/b/g/n	802.11 b/g/n
Wireless frequency	Concurrent 2.4 & 5 GHz	
Radio	2	1
SSID number	16	8
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz: 24.3 dBm, 2 antennas US (FCC) 5 GHz: 25.8 dBm, 2 antennas EU (ETSI) 2.4 GHz: 18.6 dBm (EIRP), 2 antennas EU (ETSI) 5 GHz: 28.4 dBm (EIRP), 2 antennas	US (FCC) 2.4 GHz: 24.3 dBm, 2 antennas EU (ETSI) 2.4 GHz: 19.6 dBm (EIRP), 2 antennas
No. of antenna	2.4 GHz: 2T2R MIMO; 5 GHz: 2T2R MIMO (Detachable, SMA-R)	
Antenna gain	3 dBi	3 dBi
Data rate	802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)	
Frequency band	2.4 GHz (IEEE 802.11 b/g/n) <ul style="list-style-type: none"> USA (FCC): 2.412 to 2.462 GHz Europe (ETSI): 2.412 to 2.472 GHz TWN (NCC): 2.412 to 2.462 GHz 	5 GHz (IEEE 802.11 a/n) <ul style="list-style-type: none"> USA: 5.150 to 5.250 GHz; 5.725 to 5.850 GHz European (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz Taiwan (TW): 5.25 to 5.35 GHz; 5.725 to 5.850 GHz
Receive sensitivity	2.4 GHz: <ul style="list-style-type: none"> 11 Mbps ≤ -87 dBm 54 Mbps ≤ -74 dBm HT20 ≤ -71 dBm; HT40 ≤ -68 dBm 	5 GHz: <ul style="list-style-type: none"> 54 Mbps ≤ -75 dBm HT20, MCS15 ≤ -71 dBm HT40, MCS15 ≤ -69 dBm
		2.4 GHz: <ul style="list-style-type: none"> 11 Mbps ≤ -87 dBm; 54 Mbps ≤ -74 dBm HT20, MCS15 ≤ -71 dBm; HT40, MCS15 ≤ -68 dBm

Unified Security Gateway

Model	Remote Offices/Small Businesses (SBs)		
	USG20W	USG20	
Hardware Specifications			
10/100/1000 Mbps RJ-45 ports	4 x LAN/DMZ, 1 x WAN	4 x LAN/DMZ, 1 x WAN	
Gigabit combo (SFP/RJ-45) port	-	-	
USB ports	1	1	
SEM slot (Security Extension Module)	-	-	
Fanless	-	-	
System Capacity & Performance^{*1}			
SPI firewall throughput (Mbps) ^{*2}	175	175	
VPN throughput (Mbps) ^{*3}	75	75	
UTM throughput (AV and IDP) ^{*4}	-	-	
Max. TCP concurrent sessions ^{*5}	10,000	10,000	
Max. concurrent IPsec VPN tunnels	5	5	
Max. concurrent SSL VPN users	1	1	
Included SSL VPN user no.	1	1	
Customizable zones	Yes	Yes	
IPv6 support	Yes	Yes	
WLAN Management			
AP Controller (APC) support	-	-	
Managed AP number (default/max.)	-	-	
Key Software Features			
Firewall	Yes	Yes	
Virtual Private Network (VPN)	Yes (IPsec, SSL, L2TP over IPsec)	Yes (IPsec, SSL, L2TP over IPsec)	
Anti-Virus (AV)	-	-	
Intrusion Detection and Prevention (IDP)	-	-	
Anti-Spam	Yes	Yes	
Content Filtering (CF)	Yes	Yes	
Application Intelligence and Control	-	-	
SSL inspection	-	-	
Single Sign-On (SSO)	-	-	
WLAN controller	-	-	
Power Requirements			
Power input	100 - 240 V AC, 50/60 Hz, 1.5 A max.	100 - 240 V AC, 50/60 Hz, 1.5 A max.	
Max. power consumption (watt)	16.0	15.0	
Heat dissipation (BTU/hr)	54.59	51.18	
Physical Specifications			
Item	Dimensions (WxDxH)(mm/in.)	216 x 140 x 33/8.50 x 5.51 x 1.30	216 x 140 x 33/8.50 x 5.51 x 1.30
	Weight (kg/lb.)	0.42/0.93	0.38/0.84
Packing	Dimensions (WxDxH)(mm/in.)	305 x 205 x 106/12.01 x 8.07 x 4.17	305 x 205 x 106/12.01 x 8.07 x 4.17
	Weight (kg/lb.)	11/2.43	1/2.20
Included accessories	<ul style="list-style-type: none"> Power adapter Ethernet cable DB9—RJ-45 cable for console connection Antenna 	<ul style="list-style-type: none"> Power adapter Ethernet cable DB9—RJ-45 cable for console connection 	
Environmental Specifications			
Operating environment	Temperature	0°C to 40°C/32°F to 104°F	
	Humidity	10% to 90% (non-condensing)	
Storage environment	Temperature	-30°C to 70°C/-22°F to 158°F	
	Humidity	10% to 90% (non-condensing)	
MTBF (hr)	301,502	323,269	
Certifications			
EMC	FCC Part 15 (Class B), CE EMC (Class B)		
Safety	LVD (EN60950-1), BSMI		

Wireless Specifications

	USG20W
Standard compliance	802.11 b/g/n
Wireless frequency	2.4 GHz
Radio	1
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz: 26.6 dBm, 2 antennas EU (ETSI) 2.4 GHz: 19.1 dBm (EIRP), 2 antennas
No. of antenna	2.4 GHz: 2T2R MIMO
Antenna gain	2 dBi
Data rate	802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)
Receive sensitivity	2.4 GHz: <ul style="list-style-type: none"> 11 Mbps ≤ -83 dBm 54 Mbps ≤ -70 dBm HT20, MCS15 ≤ -64 dBm

Note:

*: This matrix with firmware ZLD 4.20 or later.

*1: Actual performance may vary depending on network conditions and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: AV and IDP throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.

*5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.

*6: Including Gateway-to-Gateway and Client-to-Gateway

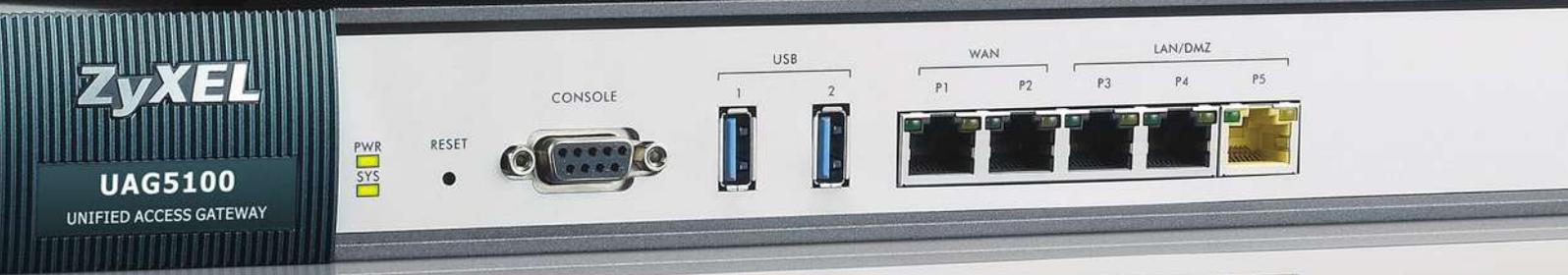
*7: SafeSearch function in CF2.0 need to enable SSL Inspection firstly and not for small business models

VPN Firewall

Model	Small- and Medium-sized Businesses (SMBs)		Remote Offices/ Small Businesses (SBs)	Remote Offices/Small Businesses (SBs)		
	ZyWALL 1100	ZyWALL 310	ZyWALL 110	USG20-VPN	USG20W-VPN	
Hardware Specifications						
10/100/1000 Mbps RJ-45 ports	8 (configurable)	8 (configurable)	2 x WAN, 1 x OPT, 4 x LAN/DMZ	1 x WAN, 1 x SFP, 4 x LAN/DMZ	1 x WAN, 1 x SFP, 4 x LAN/DMZ	
USB ports	2	2	2	1	1	
Console port	Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (RJ-45)	Yes (RJ-45)	
Rack-mountable	Yes	Yes	Yes	-	-	
Fanless	-	-	-	-	-	
System Capacity & Performance¹						
SPI firewall throughput (Mbps) ²	6,000	5,000	1,600	350	350	
VPN throughput (Mbps) ³	800	650	400	90	90	
Concurrent devices (default/max.)	800/1500	500/ 800	200/300	64	64	
Max. TCP concurrent sessions ⁵	500,000	200,000	60,000	20,000	20,000	
Max. concurrent IPSec VPN tunnels ⁵	1,000	300	100	10	10	
Concurrent SSL VPN users (default/max.)	250/500	50/150	25/150	5/15	5/15	
Customizable zones	Yes	Yes	Yes	Yes	Yes	
IPv6 support	Yes	Yes	Yes	Yes	Yes	
WLAN Management						
AP Controller (APC) support	Yes	Yes	Yes	-	-	
Managed AP number (default/max.)	2/66	2/34	2/34	-	-	
Key Software Features						
Firewall	Yes	Yes	Yes	Yes	Yes	
Virtual Private Network (VPN)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	
Bandwidth management	Yes	Yes	Yes	Yes	Yes	
Logging and monitoring	Yes	Yes	Yes	Yes	Yes	
SSL (HTTPS) inspection	Yes	Yes	Yes	-	-	
Unified security policy	Yes	Yes	Yes	Yes	Yes	
EZ mode	-	-	-	Yes	Yes	
Cloud Helper	Yes	Yes	Yes	Yes	Yes	
Device HA	Yes	Yes	Yes	-	-	
License Service						
Anti-Virus (AV)	Yes	Yes	Yes	-	-	
Intrusion Detection and Prevention (IDP) & Application Intelligence	Yes	Yes	Yes	-	-	
Anti-Spam	Yes	Yes	Yes	Yes	Yes	
Content Filtering (CF2.0) ⁷	Yes	Yes	Yes	Yes	Yes	
Device HA Pro	Yes	Yes	Yes	-	-	
Hospot Management	Yes	Yes	-	-	-	
Power Requirements						
Power input	100 - 240 V AC, 50/60 Hz, 1.3 A max.		12 V DC, 3.33 A max.	12 V DC, 2.0 A max.	12 V DC, 2.0 A max.	
Max. power consumption (watt)	58.5	58.5	37	12.00	18.0	
Heat dissipation (BTU/hr)	199.61	199.61	126.25	40.92	61.38	
Physical Specifications						
Item	Dimensions (WxDxH)(mm/in.)	430 x 250 x 44/ 16.93 x 9.84 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73	300 x 178 x 44/ 11.81 x 7 x 1.73	216 x 143 x 33/ 8.50 x 5.63 x 1.30	216 x 143 x 33/ 8.50 x 5.63 x 1.30
	Weight (kg/lb.)	3.3/7.28	3.3/7.28	2/4.41	1.04/2.29	1.14/2.51 (Antenna included)
Packing	Dimensions (WxDxH)(mm/in.)	519 x 392 x 163/ 20.43 x 15.43 x 6.42	519 x 392 x 163/ 20.43 x 15.43 x 6.42	245 x 152 x 35/ 9.65 x 5.98 x 13.82	276 x 185 x 98/ 10.87 x 7.28 x 3.86	276 x 185 x 98/ 10.87 x 7.28 x 3.86
	Weight (kg/lb.)	4.74/10.45	4.74/10.45	2.83/6.24	1.41/3.11	1.50/3.31
Included accessories	<ul style="list-style-type: none"> Power cord Rack mounting kit 		<ul style="list-style-type: none"> Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power adaptor Power cord Rack mounting kit 	<ul style="list-style-type: none"> Power adaptor RJ-45 - RS-232 cable for console connection Antenna 	
Environmental Specifications						
Operating environment	Temperature	0°C to 40°C/32°F to 104°F		0°C to 40°C/32°F to 104°F		
	Humidity	10% to 90% (non-condensing)		10% to 90% (non-condensing)		
Storage environment	Temperature	-30°C to 70°C/-22°F to 158°F		-30°C to 70°C/-22°F to 158°F		
	Humidity	10% to 90% (non-condensing)		10% to 90% (non-condensing)		
MTBF (hr)	560,811.5	560,811.5	787,109.3	44,000	44,000	
Certifications						
EMC	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI			FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI		
Safety	LVD (EN60950-1), BSMI			BSMI, UL		

Wireless Specifications

		USG20W-VPN	
Standard compliance	802.11 a/b/g/n/ac		
Wireless frequency	2.4 GHz/5 GHz		
Radio	1		
SSID number	8		
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz: 25 dBm, 3 antennas US (FCC) 5 GHz: 25 dBm, 3 antennas		EU (ETSI) 2.4 GHz: 20 dBm (EIRP), 3 antennas EU (ETSI) 5 GHz: 20 dBm (EIRP), 3 antennas
No. of antenna	3 detachable antennas		
Antenna gain	2 dBi @2.4 GHz, 3 dBi @5 GHz		
Data rate	802.11n Up to 450 Mbps; 802.11ac Up to 1300 Mbps		
Frequency band	2.4 GHz (IEEE 802.11 b/g/n) • USA (FCC): 2.412 to 2.462 GHz • Europe (ETSI): 2.412 to 2.472 GHz • TWN (NCC): 2.412 to 2.462 GHz		5 GHz (IEEE 802.11 a/n/ac) • USA (FCC): 5.15 to 5.25 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.7250 to 5.850 GHz • Europe (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz • TWN (NCC): 5.15 to 5.25 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.7250 to 5.850 GHz
	2.4 GHz: • 11 Mbps ≤ -87 dBm • HT20, MCS15 ≤ -71 dBm		5 GHz: • 54 Mbps ≤ -74 dBm • HT40, MCS23 ≤ -68 dBm • VHT40, MCS9 ≤ -62 dBm



Access Gateways

82 Unified Access Gateways



Access gateways

Tailor-made for hospitality business



High quality Internet access is no longer an amenity for hospitality businesses. It is a guest expectation and a key to customer satisfaction. Yet, providing satisfactory Internet services is not simply a matter installing Ethernet cables and wireless access points. Questions of bandwidth sufficiency, access management, and regulation compliance need to be considered to avoid customer complaints, bandwidth abuse, and breaking the law.

Zyxel's access gateway solutions are tailor-made to help hospitality businesses boost service value. They help hotels, restaurants and cafés provide superb network quality to customers, manage guest accounts easily, comply with data retention regulations, and generate revenue with Internet services. Zyxel's access gateway portfolio offers solutions for a wide range of hospitality environments—including single-location Wi-Fi hotspot and multi-room Internet access solutions.

Manage and Monetize

Designed with advanced billing, user authentication, and access control features, Zyxel's access gateways help hospitality businesses manage guest accounts, block unauthorized access, and generate revenue with their Internet services. Providing the flexibility to offer Internet

access as a free service, a tiered service (premium when a purchase is made), or a paid service, Zyxel access gateway solutions help hospitality businesses increase in-room revenue, meeting room revenue, and other revenue opportunities.

Increase Customer Loyalty

Zyxel's access gateways help hospitality businesses provide better performance, capacity, and service quality to their customers. Advanced features like 802.11 a/b/g/n dual-radio (2.4 GHz and 5 GHz) technology provides 2x the spectrum and 2x the bandwidth to accommodate the exploding amount of customer wireless devices. Zyxel's access gateways also offer bandwidth management capabilities to enforce equal bandwidth sharing, avoid bandwidth abuse, and provide good service quality to increase customer loyalty.



Single-spot or Multi-room Deployments

Zyxel offers access gateway solutions for a wide range of hospitality environments—including single-location Wi-Fi hotspot and multi-room Internet access solutions. Selected models feature built-in WLAN controllers, which makes it easy for hotels and resorts to extend the WLAN to multiple locations like guest rooms, dining areas, or even outdoors. Zyxel also offers ticket printers that enable one-click billing and account generation for Wi-Fi hotspot services in hotel lobbies, conference rooms, waiting areas, restaurants and cafés.

Regulatory Compliance

To address information security concerns, hospitality businesses are sometimes required to retain Internet usage records for a certain amount time; and this can become a significant burden for the businesses without the right equipment. Designed with the hospitality industry in mind, the Zyxel's line of access gateways help the businesses resolving the challenges. The Zyxel access gateways can automatically record user account information, MAC addresses, source and destination IPs, data volume and protocol types for future auditing requirements.

UAG5100

Unified Access Gateway



UAG5100

5 x GbE RJ-45 ports, 2 x USB ports, 1 x console port

Specifications

Network	uPnP, iPnP, NAT, DHCP client/server/relay
Authentication	VPN 1-1 mapping, SMTP, Web-based authentication, user agreement, external RADIUS support, RADIUS authentication
Billing	Up to 10 billing profiles, time-to-finish & accumulation billing modes, multiple logins, idle time-out
Security	SPI firewall, IPSec VPN, L2 isolation

- Integrated account generator, Web-based authentication portal and billing system and supports external RADIUS servers
- 250 Mbps maximum routing throughput, Supports 500 concurrent logins by default and up to 800 via license upgrade
- Supports SMS ticketing and the SP350E Service Gateway Printer
- Dual-WAN failover and load-balancing support
- Supports up to 10 IPSec VPN tunnels

Services	Customizable Web portal, advertisement link, walled garden, customizable user agreement page
Management & Monitoring	Bandwidth management (per account), SNMP v2c, Syslog (account, IP, MAC, traffic)
WLAN controller	Build-in WLAN controller to manage up to 32 APs

UAG4100

Unified Access Gateway



UAG4100

5 x GbE RJ-45 ports, 2 x USB ports, 1 x console port

Specifications

Network	uPnP, iPnP, NAT, DHCP client/server/relay, VPN 1-1 Mapping, SMTP
Authentication	Web-based authentication, user agreement, external RADIUS support, RADIUS Authentication
Billing	Up to 10 billing profile, billing mode (time-to-finished & accumulation), multiple login, idle time-out

- IEEE 802.11 a/b/g/n dual-radio (2.4 GHz and 5 GHz) design
- Supports 200 concurrent logins by default and up to 300 via license upgrade
- Integrated account generator, Web-based authentication portal and billing system
- Supports external RADIUS servers
- SMS ticketing with ViaNett protocol support

Security	Firewall, L2 isolation
Services	Customizable Web portal, advertisement link, walled garden, customizable user agreement page
Management & Monitoring	BWM (per account), SNMP v2c, Syslog (account, IP, MAC, traffic)
WLAN controller	Build-in WLAN controller & management up to 16 APs

UAG2100

Unified Access Gateway



UAG2100

5 x GbE RJ-45 ports, 2 x USB ports, 1 x console port

Specifications

Network	uPnP, iPnP, NAT, DHCP client/server/relay, VPN 1-1 Mapping, SMTP
Authentication	Web-based authentication, user agreement, external RADIUS support, RADIUS authentication
Billing	Up to 10 billing profile, billing mode (time-to-finished & accumulation), multiple login, idle time-out

- IEEE 802.11 a/b/g/n dual-radio (2.4 GHz and 5 GHz) design
- Supports 100 concurrent logins by default and up to 200 via license upgrade
- Integrated account generator, Web-based authentication portal and billing system
- Supports external RADIUS servers
- Supports SMS ticketing and the SP350E Service Gateway Printer

Security	Firewall, L2 isolation
Services	Customizable Web portal, advertisement link, walled garden, customizable user agreement page
Management & Monitoring	BWM (per account), SNMP v2c, Syslog (account, IP, MAC, traffic)
WLAN controller	Build-in WLAN controller & management up to 8 APs

UAG50

Unified Access Gateway



UAG50

1 x USB LAN, 1 x WAN, 1 x USB port

Specifications

Network	uPnP, iPnP, NAT, DHCP client/server/relay, VPN-passthrough, SMTP
Authentication	Web-based authentication, user agreement, external RADIUS support, RADIUS authentication
Billing	Up to 10 billing profile, billing mode (time-to-finished & accumulation), idle time-out

- Built-in thermal printer
- Supports 100 concurrent log-ins
- Integrated account generator, Web-based authentication portal and billing system
- Supports 10 billing profiles
- Supports external RADIUS servers
- Equal bandwidth management
- Facilitates compliance with data retention regulations

Security	L2 isolation
Services	Customizable Web portal, advertisement link, walled garden, customizable user agreement page
Management & Monitoring	SNMP v2c, Syslog

SP350E

Service Gateway Printer



SP350E
10/100 Mbps RJ-45 port

- Accessories of generating revenue
- One-click billing and account generation
- Relieve receptionists from complicated operations

Specifications

Buttons	3
Paper roll width	58 (+0/-1) mm
Interface	10/100 Mbps RJ-45 port
Power input	12 V DC, 5 A max.
Item dimensions (WxDxH)	176 x 111 x 114 mm (6.93" x 4.37" x 4.49")
Item weight	0.8 kg (1.76 lb.)

Supported Model

Model	Supported	Model	Supported
UAG50	-	USG40(W)	-
UAG2100	Yes	USG60(W)	-
UAG4100	Yes	USG110	-
UAG5100	Yes	USG210	-
USG20(W)-VPN	-	USG310	Yes
ZyWALL 110	-	USG1100	Yes
ZyWALL 310	Yes	USG1900	Yes
ZyWALL 1100	Yes		

UAG License

Item	Model	UAG5100	UAG4100	UAG2100	UAG50
Managed AP scalability	LIC-EAP	16 APs	8 APs	8 APs	-
User scalability	LIC-SX	300 nodes	100 nodes	100 nodes	-
Bundled license	LIC-BUN	16 APs 300 nodes	-	-	-
SMS ticketing	LIC-eSMS	-	-	One time	-
Content filter	LIC-CCF	1 year/2 years	-	-	-
APP portal	LIC-APM	1 year/2 years	-	-	-

Model Name	UAG5100	UAG4100	UAG2100	UAG50	
Hardware Specifications					
RJ-45 ports	3 x LAN, 2 x WAN (10/100/1000 Mbps)	4 x LAN, 1 x WAN (10/100/1000 Mbps)	4 x LAN, 1 x WAN (10/100/1000 Mbps)	1 x USB LAN, 1 x WAN (10/100 Mbps)	
USB ports	2	2	2	1	
Ticket printer support	Yes (SP350E)	Yes (SP350E)	Yes (SP350E)	Yes (All-in-One)	
System Capacity & Performance¹					
Routing throughput (Mbps)²	250	200	150	> 85 Mbps (TCP upstream)	
Concurrent logins (default/max.)	500/800	200/300	100/200	50/50	
Max. concurrent sessions³	80,000	40,000	20,000	16,385	
DHCP pool size	4,096	4,096	4,096	253	
Built-in account generator	Static accounts	300	150	-	
	Dynamic accounts	4,000	2,000	1,000	
WLAN Management					
Built-in WLAN controller	Yes	Yes	Yes	-	
Managed AP number (default/max.)	16/32	8/16	0/8	-	
SSID	-	8	8	-	
Wireless Specifications					
Standard compliance	-	802.11 a/b/g/n	802.11 a/b/g/n	802.11 b/g/n	
Wireless frequency	-	Concurrent 2.4 & 5 GHz	Concurrent 2.4 & 5 GHz	2.4 GHz	
Radio	-	2	2	1	
SSID number	-	16	16	8	
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz	-	24.3 dBm, 2 antennas	18 dBm, 2 antennas	
	US (FCC) 5 GHz	-	25.8 dBm, 2 antennas	-	
	EU (ETSI) 2.4 GHz	-	18.6 dBm (EIRP), 2 antennas	18 dBm (EIRP), 2 antennas	
	EU (ETSI) 5 GHz	-	28.4 dBm (EIRP), 2 antennas	-	
No. of antenna	-	2.4 GHz: 2T2R MIMO 5 GHz: 2T2R MIMO (Detachable, SMA-R)	2.4 GHz: 2T2R MIMO 5 GHz: 2T2R MIMO (Detachable, SMA-R)	2.4 GHz: 2T2R MIMO (Detachable, SMA-R)	
Antenna gain	-	3 dBi	3 dBi	2 dBi	
Data rate	-	802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps 802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)			
Receive sensitivity	2.4 GHz	-	11 Mbps ≤ -87 dBm; 54 Mbps ≤ -74 dBm HT20 ≤ -71 dBm; HT40 ≤ -68 dBm	11b: -71 dBm@10% PER 11g: -71 dBm@10% PER 11n: -85 dBm@10% PER	
	5 GHz	-	54 Mbps ≤ -75 dBm HT20, MCS15 ≤ -71 dBm; HT40, MCS15 ≤ -69 dBm	-	
WAN					
WAN load-balancing/failover	Yes/Yes	-/-	-/-	-/-	
AAA & Billing					
Web-based authentication	Yes	Yes	Yes	Yes	
RADIUS client	Yes	Yes	Yes	Yes	
Time-to-finish/Accumulation billing modes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	
Customizable billing profiles	Yes	Yes	Yes	Yes	
Account operator	Yes	Yes	Yes	Yes	
User agreement	Yes	Yes	Yes	Yes	
SMS ticketing	Yes	Yes	License	-	
Security					
SPI firewall	Yes	Yes	Yes	Yes	
Layer 2 isolation	Yes	Yes	Yes	Yes	
VPN pass-through	Yes	Yes	Yes	Yes	
IPSec VPN	Yes (10 tunnels)	-	-	-	
802.1x support	Yes	Yes	Yes	Yes	
Management					
Syslog	Yes	Yes	Yes	Yes	
SNMP	Yes	Yes	Yes	Yes (read only)	
Limited user sessions	Yes	Yes	Yes	Yes	
Pass-through address	Yes (IP)	Yes (IP)	Yes (IP)	Yes	
Walled garden	Yes	Yes	Yes	Yes	
Customizable login page	Yes	Yes	Yes	Yes	
Customizable user agreement page	Yes	Yes	Yes	Yes	
Power Requirements					
Power input	802.3at PoE Plus input; 100 - 240 V AC, 50/60 Hz, 0.6 A max.	12 V DC, 3 A max.	12 V DC, 3 A max.	100 - 240 V AC, 50/60 Hz	
Max. power consumption (watt)	25	28	28	12 V, 1.5 A	
Physical Specifications					
Item	Dimensions (WxDxH) (mm/in.)	382 x 205 x 44/ 15.04 x 8.07 x 1.73	272 x 171 x 36/ 10.71 x 6.73 x 1.42	272 x 171 x 36/ 10.71 x 6.73 x 1.42	109 x 155 x 90/ 4.29 x 6.1 x 3.54
	Weight (kg/lb.)	2.36/5.20	1.46/3.22	1.46/3.22	0.8284/1.83
Packing	Dimensions (WxDxH) (mm/in.)	444 x 295 x 152/ 17.48 x 11.61 x 5.98	416 x 247 x 71/ 16.38 x 9.72 x 2.80	416 x 247 x 71/ 16.38 x 9.72 x 2.80	150 x 190 x 145/ 5.91 x 7.48 x 5.71
	Weight (kg/lb.)	3.7/8.16	2.3/5.07	2.3/5.07	1.049/2.31
Included accessories	• Power cord • Rack mounting kit	• Power adapter • Rack mounting kit • Antenna	• Power adapter • Rack mounting kit • Antenna	• Antenna x2 • USB to Ethernet convertor • Power adapter • Thermal paper • Paper roller	
Environmental Specifications					
Operating environment	Temperature	0°C to 45°C/32°F to 113°F	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	0°C to 50°C/32°F to 122°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	20% to 80% (non-condensing)
Storage environment	Temperature	-40°C to 70°C/-40°F to 158°F	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F	-10°C to 60°C/14°F to 140°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	20% to 95% (non-condensing)
MTBF (hr)	71,032	497,644	497,644	42,486	
Certifications					
EMC	FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI				
Safety	LVD (EN60950-1), BSMI				

*1: Actual performance may vary depending on network conditions and activated applications.

*2: Routing throughput measured using the industry standard IXIA IxLoad testing tool (1,460-byte TCP packets).

*3: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.



Small Business Gateways

89 Small Business Gateways



Small business gateways

Zyxel's small business gateway (SBG) is the ultimate solution for small businesses with multiple offices and to support remote and home-based workers to ensure security, speed and coverage across their sites. The affordable SBG can adopt various internet interfaces to enhance network performance, reduce running costs and ultimately enable small businesses to communicate effectively.

Zyxel's SBG is purpose-built for small businesses who need greater functionality, security and reliability than a

consumer-grade router can provide, but do not need an expensive enterprise-grade gateway designed for much larger organisations. Instead, the SBG sits comfortably between an overly simplistic solution and a high-end option with complicated features that are unnecessary for a small business.

With a reliable network and effortless deployment, Zyxel's SBG is a high quality solution that caters to the needs of a growing business.



Model	SBG3300-N	SBG3500-N	SBG3600-N
Multi-WAN	DSL, GbE, 3G/4G dongle	Fiber/GbE, DSL, 3G/4G dongle	Embedded LTE, Fiber/GbE, DSL, 3G dongle
STD	VDSL/ADSL2+ single line	VDSL/ADSL2+ 17a bonding	VDSL/ADSL2+ 17a bonding
USB 2.0 port	2	1	1
Wired throughput*	800 Mbps	800 Mbps	800 Mbps
VPN throughput**	40 Mbps	40 Mbps	40 Mbps
Wireless	802.11n, 300 Mbps	802.11n, 300 Mbps	802.11n, 300 Mbps
Embedded AP controller	-	Yes	Yes

* Wired Throughput is based on RFC 2544 (1,518-byte UDP packets)

** VPN Throughput is based on RFC 2544 (1,424-byte UDP packets)

SBG3600-N

LTE Multi-WAN Small Business Gateway



SBG3600-N
WLAN broadband router/access point with VDSL2 modem, GbE Ethernet WAN, 802.11n, 4-port GbE switch, USB

Specifications

WAN connection	VDSL (up to 17a), ADSL2+, GbE/SFP combo port, LTE
Bridge/Router functionality	Bridge/Router, NAT, DHCP Client/Server/Relay, Load balancing/Failover
QoS/VLAN	ATM QoS, 802.1p/q, IP QoS
LTE interface	Support B3/7/8/20

- Multi-WAN interfaces for various connectivity (LTE, VDSL, ADSL, Ethernet-SFP, 3G/4G USB)
- Supports VDSL bonding and vectoring to expand bandwidth on existing infrastructure
- VPN, firewall and URL/key word filtering provide solid data security
- Built-in Wi-Fi AP controller enabled with guest management on external/internal AAA captive Web portal support
- Auto provisioning upon installation with TR-069 support

Wireless	IEEE 802.11n compliant, data rate: up to 300 Mbps, frequency range: 2.4 GHz
VPN	IPSec/PPTP/L2TP over IPSec (up to 20 concurrent IPSec VPN tunnels), IPSec hardware engine
Management	Via Web/Telnet/FTP/TFTP/SNMP, TR-069 (mutual SSL), user database

SBG3500-N

Wireless N Fiber WAN Small Business Gateway



SBG3500-N
WLAN broadband router/access point with VDSL2 modem, GbE Ethernet WAN, 802.11n, 4-port GbE switch, USB

Specifications

WAN connection	VDSL (up to 17a), ADSL2+, GbE/SFP combo port
Bridge/Router functionality	Bridge/Router, NAT, DHCP Client/Server/Relay, Load balancing/Failover
QoS/VLAN	ATM QoS, 802.1p/q, IP QoS

- Multi-WAN interfaces for various connectivity (VDSL, ADSL, Ethernet-SFP, 3G/4G USB)
- Supports VDSL bonding and vectoring to expand bandwidth on existing infrastructure
- VPN, firewall and URL/key word filtering provide solid data security
- Built-in Wi-Fi AP controller enabled with guest management on external/internal AAA captive Web portal support
- Auto provisioning upon installation with TR-069 support

Wireless	IEEE 802.11n compliant, data rate: up to 300 Mbps, frequency range: 2.4 GHz
VPN	IPSec/PPTP/L2TP over IPSec (up to 20 concurrent IPSec VPN tunnels), IPSec hardware engine
Management	Via Web/Telnet/FTP/TFTP/SNMP, TR-069 (mutual SSL), user database

SBG3300-N

Wireless N Dual-WAN Small Business Gateway



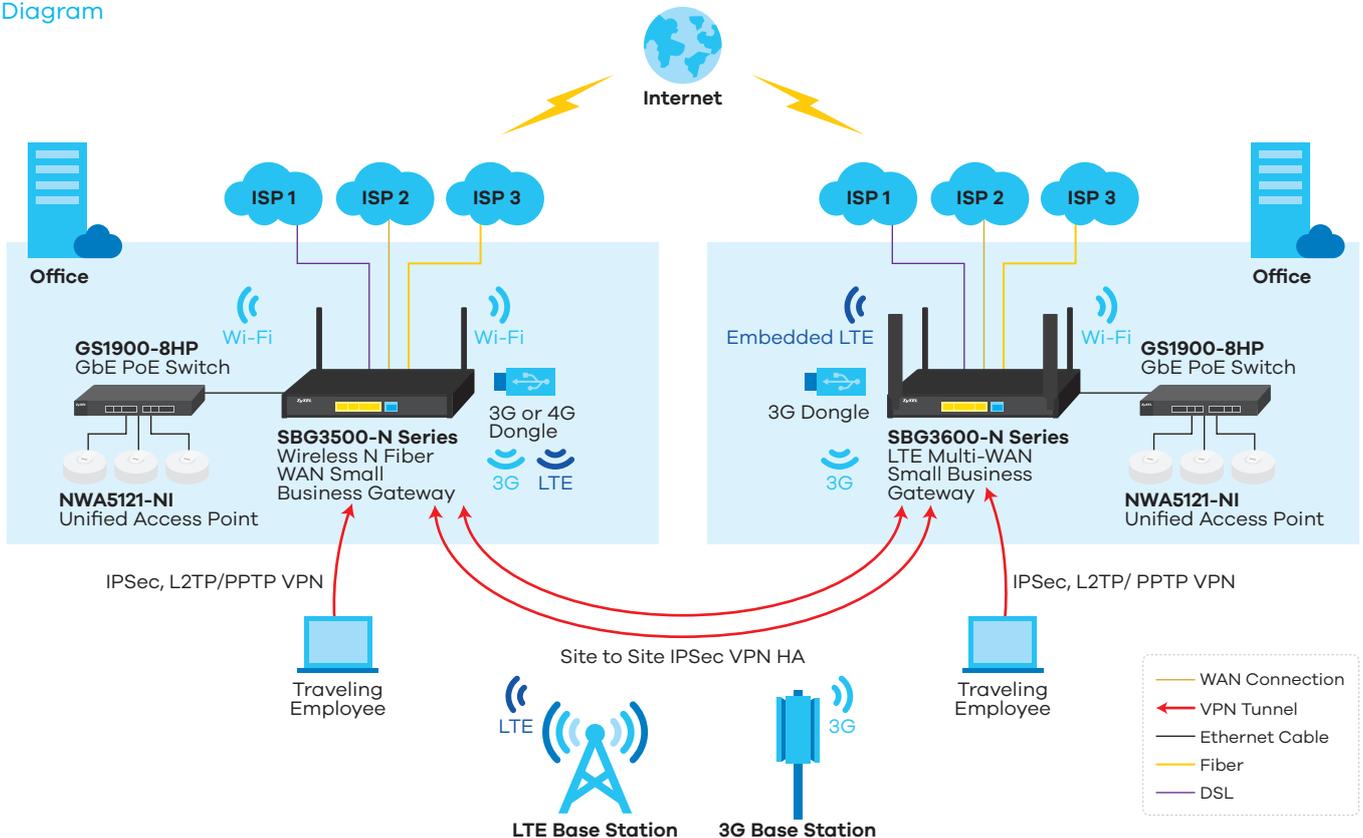
SBG3300-N
WLAN broadband router/access point with VDSL2 modem, GbE Ethernet WAN, 802.11n, 4-port GbE switch, USB, Dual-WAN load balancing

- Multi-WAN connectivity with load-balancing and failover
- High bandwidth of up to 300 Mbps for high network performance and coverage
- VPN-encrypted data protection for remote access and site-to-site connections
- Firewall and URL/keyword filtering to prevent network resource abuse
- Auto provisioning upon installation with TR-069 support

Specifications

WAN connection	VDSL2 (up to 17a profile), ADSL2	VPN	IPSec/PPTP/L2TP over IPSec (up to 20 concurrent IPSec VPN tunnels), IPSec hardware engine
Bridge/Router functionality	Bridge/Router, NAT, DHCP Client/Server/Relay, Load balancing/Failover	Management	Via Web/Telnet/FTP/TFTP/SNMP, TR-069 (mutual SSL), user database
QoS/VLAN	ATM QoS, 802.1p/q, IP QoS		
Wireless	IEEE 802.11n compliant, data rate: up to 300 Mbps, frequency range: 2.4 GHz		

Diagram



Model	SBG3600-N	SBG3500-N	SBG3300-N
Product Name	LTE Multi-WAN Small Business Gateway	Wireless N Fiber WAN Small Business Gateway	Wireless N Dual-WAN Small Business Gateway
WAN			
I/O Port	Two RJ-11 connectors for VDSL2/ADSL2+ over POTS One RJ-45 connector for VDSL2/ADSL2+ over ISDN One RJ-45/SFP combo connector for fiber		One RJ-11 connector for VDSL/ ADSL2+ over POTS/ISDN
STD	VDSL2/ADSL2+ 17a Bonding	VDSL2/ADSL2+ 17a Bonding	VDSL2/ADSL2+ Single Line
SIM Card Slot	Yes	-	-
LAN			
I/O Port	Four 10/100/1000M auto MDI/MDIX RJ-45 ports		
DMZ	Yes (LAN selectable)	Yes (LAN selectable)	Yes (LAN selectable)
USB 2.0 Port	1	1	2
VLAN	802.1Q VLAN tag support	802.1Q VLAN tag support	802.1Q VLAN tag support
Multi-WAN			
WAN Load Balancing/Failover	DSL/Gigabit Ethernet or SFP/LTE	DSL/Gigabit Ethernet or SFP	DSL/Gigabit Ethernet
Mobile Broadband	LTE built-in; 3G external USB dongle	3G/4G external USB dongle	3G/4G external USB dongle
VPN			
Connection	Client-to-site, Site-to-site		
VPN Protocol	IPSec, PPTP, L2TP/IPSec		
VPN Session	Concurrent IPSec 20 VPN tunnels, Max. VPN tunnel 35		
VPN HA	Yes		
VPN Throughput	40 Mbps		
Security			
Stateful Packet Inspection (SPI)	Yes	Yes	Yes
URL Keyword Blocking (Whitelist and Blacklist)	Yes	Yes	Yes
Time Schedule Control	Yes	Yes	Yes
Wireless			
Wireless	2x2 802.11n, up to 300 Mbps	2x2 802.11n, up to 300 Mbps	2x2 802.11n, up to 300 Mbps
Built-in WLAN Controller	Yes	Yes	-
Management			
SNMP MIB II	Yes	Yes	Yes
TR069	Yes	Yes	Yes
Others			
Rack Mountable	Yes	Yes	Yes
Physical Specifications			
Dimensions (WxDxH)(mm/in.)	242 x 170 x 36/ 9.53 x 6.69 x 1.42	242 x 170 x 36/ 9.53 x 6.69 x 1.42	210 x 115 x 33/ 8.27 x 6.06 x 1.57
Weight (g/lb.)	1,690/3.73	1,690/3.73	495/1.09

MSP Portal

Search Search

6 Organizations

Organization	Sites	Devices	Tags	Action
Courtyard Marriott	2	13 0 0	Search Test	
ZyXEL	2	15 0 0	Normal	
Hyatt	2	13 0 0	Search Test	
Sheraton Hotels & Resorts	2	15 0 0	Normal	
Coffee shop	2	13 0 0	Search Test	
Best Western	2	15 0 0	Normal	



Network Management

- 94 Cloud Network Center
- 94 Zyxel One Network Utility
- 95 Zyxel AP Configurator
- 95 Zyxel Wireless Optimizer



CNC

Cloud Network Center



- Anywhere, anytime accessibility to manage network remotely through public clouds
- Quick overview of network status across multiple sites
- Single pane of glass management for networking devices from switches, access points to gateways
- No local IT support required, any on-site person can replace failed devices with new ones easily

Features

- Cloud-based management hosted on Amazon for high availability
- Service capacity is scalable by requirement anytime
- Manage multiple networks centrally over WAN on single CNA
- Easy to manage license via license calculator
- Visit CNC web page for more details

CNC License

1yr 250-node	1 Year CNC service for 250 Zyxel networking devices
1yr 100-node	1 Year CNC service for 100 Zyxel networking devices
1yr 50-node	1 Year CNC service for 50 Zyxel networking devices

ZON Utility

Zyxel ONE Network Utility



- Unified discovery and setup tool for Zyxel switches, wireless APs and gateways
- Centralized IP configuration, device reboot and firmware upgrade interface reduces deployment time and effort
- Eliminates the need to work with multiple discovery utilities or complicated network management systems
- Working with Zyxel AP Configurator (ZAC) for further configuration of WLAN access points

Specifications

Operating system	Windows 7 (32-bit, 64-bit) Windows 8 (32-bit, 64-bit) Windows 8.1 (32-bit, 64-bit) Windows 10 (32-bit, 64-bit)
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Features	<ul style="list-style-type: none">• Discovery of Zyxel switches, APs and gateways• Centralized and batch configurations<ul style="list-style-type: none">- IP configuration- IP renew- Device factory reset- Device reboot- Device locating- Web GUI access- Firmware upgrade- Password configuration- One-click quick association with Zyxel AP Configurator (ZAC)
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ZAC

Zyxel AP Configurator



- Centrally set up and configure up to 15 standalone APs
- Intuitive, easy-to-use UI facilitates AP configuration
- Multiple AP provision relieves time-consuming single AP setting issues
- Batch configuration, firmware upgrade and backup reduce IT maintenance efforts

Specifications

Operating system	Windows 7 (32-bit, 64-bit)
	Windows 8 (32-bit, 64-bit)
	Windows 8.1 (32-bit, 64-bit)

Features	• Batch AP configuration
	• Batch AP firmware upgrade
	• Batch AP profile backup

ZWO

Zyxel Wireless Optimizer



- Facilitates the estimation of the quantity and placement of APs
- One-click calculation of the coverage with real-time data from the wireless LAN infrastructure
- Proactive RF parameter adjustments for simulating the best coverage and performance
- Visualized device location for troubleshooting, planning and asset tracking
- Practical, essential RF statistics (channel in use, stations counts, Tx/Rx packet count and retry rate)

Specifications

Operating system	Windows XP Professional SP2+
	Windows Vista (32-bit)
	Windows 7 (32-bit, 64-bit)
	Windows 8 (32-bit, 64-bit)
	Windows 8.1 (32-bit, 64-bit)
	Windows 10 (32-bit, 64-bit)

Map import	A site map in the following supported formats: .bmp, .gif, .jpg, .png
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https://nebula.zyxel.com/ Zyxel Nebula

SITE-WIDE AP SWITCH GATEWAYS ORGANIZATION HELP

APs

5 Online
8 Total
0% Overloading

Switches

1 Online
3 Total
0% Overloading

Gateway

1 Online
1 Total
0% Overloading

Internet Usage

2.57 GB (24 Hours)

Top Applications

Twitter	~10%
YouTube	~25%
Facebook	~15%
iTunes	~10%
Amazon	~10%
Skype	~10%
LinkedIn	~5%
Appledaily	~5%
Web File Transfer	~10%

Clients

35 Clients online

PoE Power

800W
180 W consumed

Connection

10 Devices (24 Hours)
Experienced slow cloud connection

Top Clients (by Usage)

Client 1	45%	750MB
Client 2	35%	500MB
Client demo	25%	250MB

Cloud Networking & Management

99 Nebula Control Centers

99 Nebula Cloud Managed Access Points

101 Nebula Cloud Managed Switches

102 Nebula Cloud Managed Security Gateway

Zyxel Nebula cloud networking and management solutions

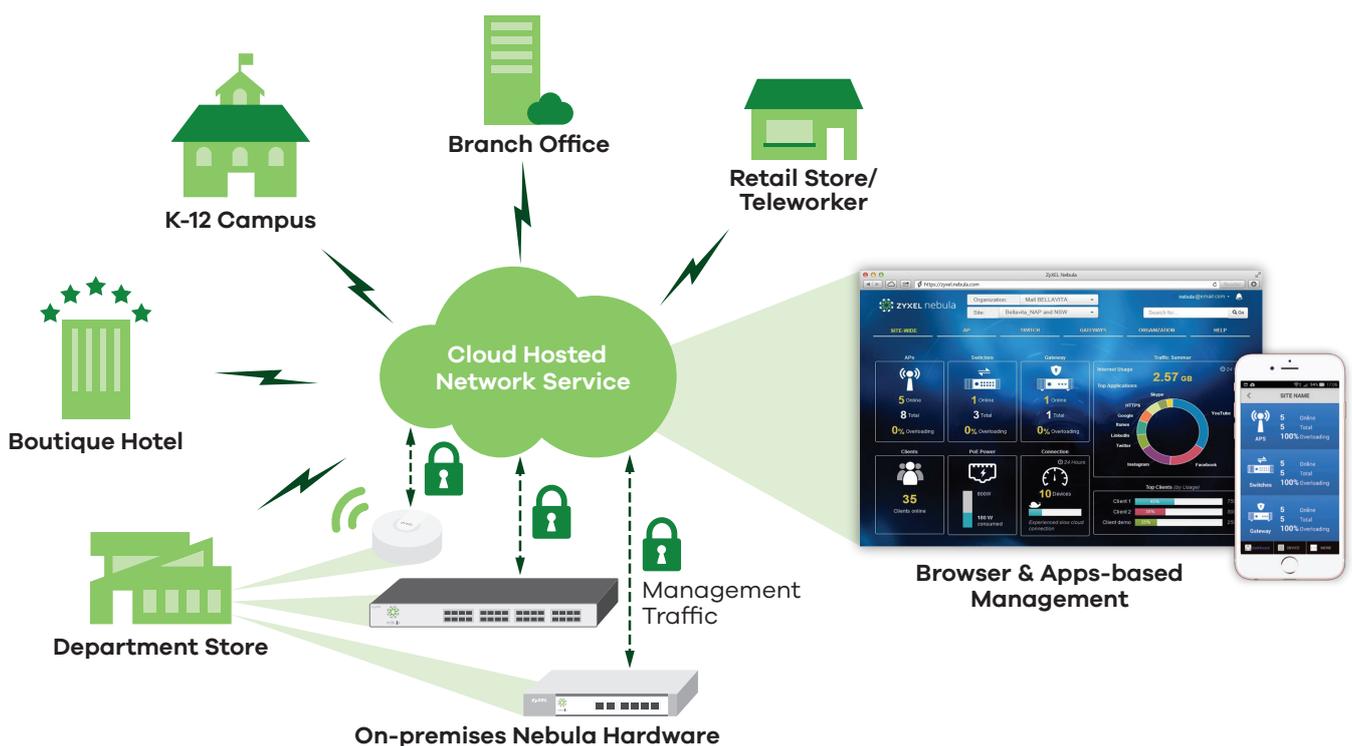
Unlock networking possibilities with the cloud

The Nebula cloud networking and management solution provides centralized control and visibility over all Nebula wired and wireless networking hardware – all without the cost and complexity of on-site control equipment

or overlay management systems. With comprehensive product portfolio that can be centrally managed from the cloud, Nebula offers simple, intuitive and scalable management for all networks.

Highlights

- Zero-touch provisioning, built-in multisite network management tools accelerate deployment of large networks
- Intuitive, automated network management interface as well as continuous feature updates that eliminate training and labor for network maintenance and support
- Centralized, unified and on-demand control as well as visibility that reduce capital expense for hardware and software
- A comprehensive networking product portfolio from a single vendor ensures better product compatibility
- Credit and on-demand licensing model provides high flexibility based on business dynamics
- Standard-based, affordable solution to fit even the tightest budget and to maximize ROI



Nebula Control Center

Nebula Control Center (NCC)



- Responsive Web design and intuitive user interface
- Multi-tenant, multi-site view
- Role-based administration privileges
- Real-time and historical monitoring/reporting
- Site-based auto and smart configuring tools
- Misconfigure protection against disconnecting NCC
- Rich site-wide management tools
- Configure login auditing

Nebula Mobile APP

Nebula mobile app

- Built-in QR code scanner for adding hundreds of devices quickly
- Photo capturing for uploading and recording locations where devices are mounted
- Overview monitoring of APs, switches and gateways
- Quick selection to view different sites

License Information

First year license points (Nebula Points) bundled with devices

Model name	Number of Nebula Points for 1 Yr NCC service
NAP102	
NAP203	30
NAP303	
NSW100-28P	
NSW200-28P	35
NSG100	50

NAP303

802.11ac Dual-radio Smart Antenna 3x3 Nebula Cloud Managed Access Point



NAP303
802.11ac Dual-radio Smart Antenna 3x3 Nebula Cloud Managed Access Point

- Cloud-managed, dual-radio 3x3 MIMO 802.11ac access point supports combined data rates of up to 1.75 Gbps
- Smart Antenna provides breakthrough performance anywhere
- Self-configuration and zero-touch deployment
- Enterprise-class security and RF optimization
- Dynamic Channel Selection, Load Balancing and Smart Client Steering

Specifications

Network interface	2 x 10/100/1000BASE-T full duplex RJ-45
Data transfer/ data throughput	1.75 Gbps combined rates
WLAN functions	Up to 8 SSID (per radio)

Security	WEP 64/128 bit, WPA PSK/WPA2 PSK, WLAN access control
PoE power draw	17.04 W
Power supply	DC input: 12 V DC 2 A; PoE: 802.3at compliant

NAP203

802.11ac Dual-Radio, Dual-Optimized Antenna 3x3 Nebula Cloud Managed Access Point



NAP203
802.11ac Dual-Radio, Dual-Optimized Antenna
3x3 Nebula Cloud Managed Access Point

- Cloud-managed, dual-radio 3x3 MIMO 802.11ac access point supports combined data rates of up to 1.75 Gbps
- Dual-optimized antenna allows pattern optimization adapting to wall- or ceiling-mount installations
- Self-configuration and zero-touch deployment
- Enterprise-class security and RF optimization
- Dynamic Channel Selection, Load Balancing and Smart Client Steering

Specifications

Network interface	2 x 10/100/1000BASE-T full duplex RJ-45
Data transfer/ data throughput	1.75 Gbps combined rates
WLAN functions	Up to 8 SSID (per radio)

Security	WEP 64/128 bit, WPA/WPA2-PSK, WPA/WPA2-enterprise, WLAN access control
PoE power draw	12.48 W
Power supply	PoE: 802.3at compliant

NAP102

802.11ac Dual-Radio Nebula Cloud Managed Access Point



NAP102
802.11ac Dual-Radio Nebula Cloud Managed
Access Point

- Cloud-managed, dual-radio 2x2 MIMO 802.11ac access point
- Supports combined data rates of up to 1.2 Gbps
- Self-configuration and zero-touch deployment
- Enterprise-class security and RF optimization
- Dynamic Channel Selection, Load Balancing and Smart Client Steering

Specifications

Network interface	1 x 10/100/1000 Mbit BASE-T, auto-sensing LAN port
Data transfer/ data throughput	1.2 Gbps combined rates
WLAN functions	Up to 8 SSID (per radio)

Security	WEP 64/128 bit, WPA PSK/WPA2 PSK, WLAN access control
PoE power draw	9 W
Power supply	12 VDC, 1 A

NAP353

802.11ac Dual-Radio External Antenna 3x3 Outdoor Nebula Cloud Managed Access Point



NAP353
802.11ac Dual-Radio External Antenna 3x3 Outdoor Nebula Cloud Managed Access Point

Specifications

Network interface	2 x 10/100/1000BASE-T full duplex RJ-45
Data transfer/ data throughput	1.75 Gbps combined rates
WLAN functions	Up to 8 SSID (per radio)

- Cloud-managed, dual-radio 3x3 MIMO 802.11ac access point supports combined data rates of up to 1.75 Gbps
- IP66-rated weather protection for harsh outdoor environments
- Self-configuration and zero-touch deployment
- Enterprise-class security and RF optimization
- Dynamic Channel Selection, Load Balancing and Smart Client Steering

Security	WEP 64/128 bit, WPA PSK/WPA2 PSK, WLAN access control
PoE power draw	25 W
Power supply	PoE: 802.3at compliant

NSW200-28P

24-port GbE Nebula Cloud Managed PoE Switch with 10GbE Uplink



NSW200-28P
Gigabit Ethernet cloud managed L2 switch with 10G uplink, 48 ports RJ-45, 4 x 10GbE SFP+ ports, 19" rackmount

Specifications

Backplane	128 Gbps, non-blocking
MAC addresses	16,000
VLAN support	1,000 static
Data transfer and prioritization	802.1p (8 priority queues per port), L2 multicast, IGMP snooping, 802.1Q VLAN tagging, bandwidth management

- Essential L2 features with user-friendly ACL and VLAN configuration
- Support 10GE uplinks to servers for high bandwidth network
- Optimized for quality voice and video traffic with high 375-watt power budget PoE technology
- Support Port Mirroring for network traffic monitoring
- Support DHCP white list and IGMP snooping
- RADIUS, static MAC forwarding and 802.1X authentication

Security	802.1x RADIUS authentication, SSL, MAC/forwarding
Power over Ethernet	All PoE ports with 802.3at, power budget 375 watts

NSW100-28P

24-port GbE Nebula Cloud Managed PoE Switch



NSW100-28P

Gigabit Ethernet cloud managed switch, 24 ports RJ-45 with PoE, 4 x GbE combo ports, 19" rackmount

Specifications

Backplane	56 Gbps, non-blocking	Data transfer and prioritization	802.1p (8 priority queues per port), L2 multicast, IGMP snooping, 802.1Q VLAN tagging, bandwidth management
MAC addresses	16,000	Security	802.1x RADIUS authentication, SSL, MAC/forwarding
VLAN support	1,000 static	Power over Ethernet	All PoE ports with 802.3at, power budget 375 watts

- Essential L2 features with user-friendly ACL and VLAN configuration
- Optimized for quality voice and video traffic with high 375-watt power budget PoE technology
- Support Port Mirroring for network traffic monitoring
- Support DHCP white list and IGMP snooping
- RADIUS, static MAC forwarding and 802.1X authentication

NSG100

Nebula Cloud Managed Security Gateway



NSG100

6 Giga ports, 2 USB

Specifications

Firewall	Stateful packet inspection, user-aware policy enforcement, VLAN, PPPoE, static routing, firewall, Intrusion Detection and Prevention (IDP), application intelligence	Streamlined policy management	Unified policy management interface, supported exclusive security features: IDP, application intelligence, firewall (ACL), policy criteria: source and destination IP address, destination port, time
IPSec VPN	Topology: Site-to-site, hubs-and-spoke, encryption: AES (256-bit), 3DES and DES, authentication: SHA-2 (512-bit), SHA-1 and MD5, perfect forward secrecy (DH groups) support 1, 2, 5, 14, IPSec NAT traversal, dead peer detection and relay detection, VPN auto-reconnection, L2TP over IPSec	Networking	Routing mode, Ethernet and PPPoE, NAT, VLAN tagging (802.1Q), DHCP client/server/relay, dynamic DNS support, maximum bandwidth, bandwidth limit per client IP

- Complete networking, security and application control over the cloud
- Zero-touch site-to-site VPN
- Secure networks with Next-Gen Firewall, IDP and Application Intelligence*
- Built-in DHCP, NAT, QoS and VLAN management
- Identity-based security policies and application management

* Every NSG100 is pre-bundled with one year IDP and Application Intelligence service.

Note: IDP and Application Intelligence service needs to be purchased on top of NCC service license, and it will not be co-terminated along with NCC service license.

Model	Nebula Cloud Managed Access Points			
	NAP303	NAP203	NAP102	NAP353
Product description	802.11ac Dual-Radio Smart Antenna 3x3 Nebula Cloud Managed Access Point	802.11ac Dual-Radio, Dual-Optimized Antenna 3x3 Nebula Cloud Managed Access Point	802.11ac Dual-Radio Nebula Cloud Managed Access Point	802.11ac Dual-Radio External Antenna 3x3 Outdoor Nebula Cloud Managed Access Point
Basic Design				
Wireless frequency	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz	2.4 and 5 GHz
Radio	2	2	2	2
RF Specifications				
Number of antenna	6 embedded smart antenna	6 internal dual-optimized antenna	4 embedded	6 N-type connectors*
Antenna gain	4 dBi @ 2.4 GHz 6 dBi @ 5 GHz	Ceiling: 2.4 GHz 3 dBi; 5 GHz 4 dBi Wall: 2.4 GHz 4 dBi; 5 GHz 5 dBi	3 dBi @ 2.4 GHz 4 dBi @ 5 GHz	-
LAN				
Number of 10/100/1000M LAN	2	2	1	1
PoE	Yes	Yes	Yes	Yes
PoE Power draw (watt)	17.04	12.48	9	25
WLAN Features				
WLAN Maximum net throughput	Up to 900 Mbps	Up to 900 Mbps	Up to 450 Mbps	Up to 900 Mbps
Wireless Security				
WEP	Yes	Yes	Yes	Yes
WPA/WPA2-PSK	Yes	Yes	Yes	Yes
WPA/WPA2-Enterprise	Yes	Yes	Yes	Yes
EAP types	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM	TLS, TTLS, PEAP, FAST, AKA and SIM	EAP-TLS, EAP-TTLS, EAP-PEAP, EAP-FAST, EAP-AKA and EAP-SIM
IEEE 802.1X	Yes	Yes	Yes	Yes
Number of SSID	8 (per radio)	8 (per radio)	8 (per radio)	8 (per radio)
MAC filtering	Yes	Yes	Yes	Yes
Layer-2 isolation	Yes	Yes	Yes	Yes
RADIUS authentication	Yes	Yes	Yes	Yes
Captive portal	Yes	Yes	Yes	Yes
Network				
VLANs	Yes	Yes	Yes	Yes
DHCP client	Yes	Yes	Yes	Yes
QoS (PG)				
WMM	Yes	Yes	Yes	Yes
WMM power save	Yes	Yes	Yes	Yes
DiffServ marking	Yes	Yes	Yes	Yes
Management				
Cloud managed	Yes	Yes	Yes	Yes
ZON utility	Support	Support	Support	Support
Smart connect	Neighbor device discovery	Neighbor device discovery	Neighbor device discovery	Neighbor device discovery
Others				
Plenum rating	Yes	Yes	Yes	Yes
Power supply	DC input: 12 VDC 2 A; PoE: 802.3at compliant	802.3at PoE only	Input: AC 100 - 240 V -50/60Hz 0.3 A; Output: DC +12 V 1 A	PoE: 802.3at compliant
MTBF	1,727,246	1,727,245	1,727,244	562,413
Physical Specifications				
Item dimensions (WxDxH) (mm/in.)	236 x 227 x 62/ 9.28 x 8.95 x 2.43	203.9 x 191.7 x 34.7/ 8.03 x 7.55 x 1.37	130 x 130 x 54.7/ 5.12 x 5.12 x 2.17	255 x 256 x 62/ 10.04 x 10.08 x 2.44
Item weight (g/lb.)	982/2.17	445/0.98	300/0.67	1,708/3.77
Included accessories	<ul style="list-style-type: none"> Ceiling mount plate Mounting screws 	<ul style="list-style-type: none"> Wall/Ceiling-mount plate 	<ul style="list-style-type: none"> Power adapter Wall/Ceiling-mount plate 	<ul style="list-style-type: none"> Pole/wall mounting kits PoE injector Power cord
Environmental Specifications				
Wether protection	-	-	-	IP66 (Embedded heater for harsh weather)
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
	Humidify	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (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	-30°C to 70°C/ -22°F to 158°F
	Humidify	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)

* The antenna is not embedded and external antennas are separately sold.

Model	Nebula Cloud Managed Switches		
	NSW200-28P	NSW100-28P	
Switch class	Layer 2	Layer 2	
Hardware			
Total port count	28	28	
1 Gigabit RJ45 PoE ports	24	24	
Gigabit combo ports (RJ-45/SFP)	-	4	
10 Gigabit SFP+ slots	4	-	
Backplane bandwidth (Gbps)	128	56	
Forwarding rate (Mpps)	95.2	41.7	
MAC addresses table	16 K	16 K	
Routing/Redundancy			
Spanning tree (STP/MSTP/RSTP)	Yes	Yes	
Quality of Service			
Priority queues	8	8	
Data prioritization (WRR)	Yes	Yes	
Guest VLAN	Yes	Yes	
IGMP snooping (v1/v2/v3)	Yes	Yes	
Jumbo frame forwarding	Yes	Yes	
802.1p class of service	Yes	Yes	
Security			
802.1X authentication	Yes	Yes	
ACL security filter L3/L4	Yes	Yes	
CPU protection	Yes	Yes	
Others			
MTBF (hr)	560,726	949,326	
Heat dissipation (BTU/hr)	1,483.40	1625.55	
Physical Specifications			
Item dimensions (WxDxH)(mm/in.)	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.)	5.06/11.16	4.79/10.56	
Included accessories	<ul style="list-style-type: none"> • Power cord • Rack-mount kits 	<ul style="list-style-type: none"> • Power cord • Rack-mount kits 	
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
	Humidify	10% to 95% (non-condensing)	10% to 90% (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
	Humidify	10% to 90% (non-condensing)	10% to 90% (non-condensing)

Model		Nebula Cloud Managed Security Gateway	
		NSG100	
Hardware Specifications			
10/100/1000 Mbps RJ-45 ports		4 x LAN/DMZ, 2 x WAN	
USB ports		2	
Console port		Yes (DB9)	
Rack-mountable		Yes	
Fanless		Yes	
System Capacity & Performance¹			
SPI firewall throughput (Mbps) ²		650	
VPN throughput (Mbps) ³		140	
IDP throughput (Mbps) ⁴		180	
Unlimited user licenses		Yes	
Max. TCP concurrent sessions ⁵		40,000	
Max. concurrent IPsec VPN tunnels ⁶		40	
Customizable zones		Yes	
VLAN interface		8	
Key Software Features			
Firewall		Yes	
Virtual Private Network (VPN)		Yes (IPSec, L2TP over IPSec)	
Application intelligence		Yes	
Intrusion Detection and Prevention (IDP)		Yes	
Bandwidth management		Yes	
Power Requirements			
Power input		12 V DC, 3.0 A max.	
Max. power consumption (watt)		19.0	
Heat dissipation (BTU/hr)		64.83	
Physical Specifications			
Item dimensions (WxDxH)(mm/in.)		242 x 175 x 36/9.53 x 6.89 x 1.42	
Item weight (kg/lb.)		1.25/2.76	
Included accessories		<ul style="list-style-type: none"> • Power adapter • Rack mounting kit 	
Environmental Specifications			
Operating environment	Temperature	0°C to 40°C/32°F to 104°F	
	Humidify	10% to 90% (non-condensing)	
Storage environment	Temperature	-30°C to 70°C/-22°F to 158°F	
	Humidify	10% to 90% (non-condensing)	
Certifications			
EMC		FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI	
Safety		LVD (EN60950-1), BSMI	

*1: Actual performance may vary depending on network conditions and activated applications.

*2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets).

*3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets).

*4: IDP throughput measured using the industry-standard HTTP performance test (1,460-byte HTTP packets). Tests were done with multiple flows.

*5: Maximum sessions measured using the industry-standard IXIA IxLoad testing tool.

*6: Including Gateway-to-Gateway and Client-to-Gateway.

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67	Content Filtering 2.0	36	GS1920-24HP	41	RGS200-12P	42	XFP-SR
42	DAC10G-1M	36	GS1920-48	90	SBG3300-N	34	XGS2210-28
42	DAC10G-3M	36	GS1920-48HP	89	SBG3500-N	34	XGS2210-28HP
69	Device High Availability Pro	35	GS2210-24	89	SBG3600-N	34	XGS2210-52
12	EM-412	35	GS2210-24HP	42	SFP-1000T	34	XGS2210-52HP
12	EM-422	35	GS2210-48	42	SFP10G-LR	31	XGS3700-24
40	ES1100-16	35	GS2210-48	42	SFP10G-SR	31	XGS3700-24HP
40	ES1100-16P	35	GS2210-8	42	SFP-BX1310-10-D	31	XGS3700-48
40	ES1100-24	35	GS2210-8	42	SFP-BX1490-10-D	31	XGS3700-48HP
40	ES1100-24E	35	GS2210-8HP	42	SFP-LHX1310-40-D	29	XGS-4526
40	ES1100-8P	32	GS3700-24	42	SFP-LX-10-D	29	XGS-4528F
33	ES3500-24	32	GS3700-24HP	42	SFP-SX-D	28	XGS4600-32
33	ES3500-8PD	32	GS3700-48	42	SFP-ZX-80-D	28	XGS4600-32F
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