

ZYXEL Your Networking Ally

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Security

Device Quick Finder/Key Features

Product Category	Business Scale	Model	
Next Generation Unified Security Gateway— Extreme Series	Ultra-high performance Next Generation Firewall (NGFW) for medium to large businesses	USG1900 USG1100	
Next Generation Unified Security Gateway— Advanced Series	Mid-range Next Generation Firewall (NGFW) for small and medium-sized businesses	USG310 USG210 USG110	
Next Generation Unified Security Gateway— Performance Series	Desktop Next Generation Firewall (NGFW) for small businesses	USG40W USG40	
VPN Firewa ll	Reliable remote access solution for Medium-sized businesses	USG2200-VPN	
VPN Firewa ll	Reliable remote access solution for small- and medium-sized businesses	ZyWALL 1100 ZyWALL 310 ZyWALL 110	
VPN Firewa ll	Reliable remote access solution for small businesses & branch offices	USG20-VPN USG20W-VPN	

Service Quick Finder/Key Features

Category	Service Portal	Service Name	
Online Service Platform	https://portal.myzyxel.com/	myZyxel	myZyxel
Security Information Website	http://onesecurity.zyxel.com/	OneSecurity	OneSecurity.com

Software Quick Finder/Key Features

Product Category	Compatible Security Appliances	Model	
Security Service	NG USG Extreme Series/ Advanced Series/ Performance Series ZyWALL Series	Anti-Virus	
Security Service	USG Series VPN Firewall Series	Anti-Spam	
Security Service	USG Series VPN Firewall Series	Content Filtering 2.0	
Security Service	NG USG Extreme Series/ Advanced Series/ Performance Series ZyWALL Series	Intrusion Detection and Prevention (IDP)	
Security Service	NG USG Extreme Series/ Advanced Series/ Performance Series ZyWALL Series	Application Patrol	
Connectivity Service	 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 	SecuExtender Software	
Connectivity Service	NG USG Extreme Series/ Advanced Series/ Performance Series ZyWALL Series	AP Controller	(
Connectivity Service	NG USG Extreme Series/ Advanced Series ZyWALL Series	Device High Availability Pro	
Connectivity Service	Next-Gen Unified Security Gateway (USG) Series and ZyWALL VPN Firewall Series with firmware version ZLD V4.10 or above	SSO Agent	
Vertical Solution Service	USG 110/210/310/1100/1900 ZyWALL 110/310/1100	Hotspot Management	
Security Appliance Management	Next-Gen Unified Security Gateway (USG) Series and VPN Firewall Series with firmware version ZLD 4.13 or above	Cloud CNM SecuManager	
Security Analytics Service	NG USG Series (ZLD4.25) APs via APC support ZyWALL ATP (ZLD4.30) ZyWALL VPN (ZLD4.30)	Cloud CNM SecuReporter	

Product Category	Model	Key Features
Security Service	Anti-Virus	 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
Security Service	Anti-Spam	 Transparent mail interception via SMTP and POP3 protocols Zero-hour virus outbreak protection Sender-based IP reputation filter Blacklist and whitelist support
Security Service	Content Filtering 2.0	 Dynamic, cloud-based URL filtering database Bandwidth regulation by filtering SafeSearch support for social networking content constraints IPv6 GeoIP Blocking covers management of billions of IOT and mobile devices GeoIP maps and tracks IP addresses from the cloud into real geographical locations
Security Service	Intrusion Detection and Prevention (IDP)	 Routing and transparent (bridge) mode Detects and alerts you of suspicious or malicious activity Customizable protection profile Customized signatures supported
Security Service	Application Patrol	 Granular control over the most important applications Identifies and controls application behavior Application bandwidth management Supports user authentication Real-time statistics and reports
Connectivity Service	SecuExtender Software	 Providing solutions of both SSL VPN and IPSec VPN remote access Enhanced layered security incorporating Zyxel security appliances Easy and intelligent installation reducing IT effort
Connectivity Service	AP Controller	 Integrated AP controller as central management to provide flexible deployment options AP auto discovery and auto provisioning
Connectivity Service	Device High Availability Pro	 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
Connectivity Service	SSO 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
Vertical Solution Service	Hotspot Management	 High speed Internet access Tier of service Log record for regulatory compliance Premium security control Various Network access control
Security Appliance Management	Cloud CNM SecuManager	 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
Security Analytics Service	Cloud CNM SecuReporter	 Cloud-based real-time monitoring and alerts Effective event correlation and user behavior analytics Intuitive dashboard and customizable report * Available in Q3, 2017

VPN Firewall

Model UB0200-VPN UB0200-VPN Hondbards US0200-VPN 1 NUNL 1 S PP AX LANDAZ 1 NUNL 1 S PP AX LANDAZ VD001000 UNDEL LAS parts 1 1 NUNL 1 S PP AX LANDAZ 1 NUNL 1 S PP AX LANDAZ VD001000 UNDEL LAS parts NUNL 1 S PP AX LANDAZ 1 NUNL 1 S PP AX LANDAZ 1 NUNL 1 S PP AX LANDAZ VD001000 UNDEL S parts NUNL 1 S PP AX LANDAZ 1 1 1 NUNL 1 S PP AX LANDAZ 1			Remote Offices/Small Businesses (SBs)	
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Power input 12 V DC, 2.0 A max. 12 V DC, 2.0 A max. Max. power consumption (watt) 12.00 18.0 Heat dissipation (BTU/hr) 40.92 61.38 Physical Specifications 51.38 Physical Specifications 216 x 143 x 33/8.50 x 5.63 x 1.30 Packing Dimensions (WxDxH)(mm/in.) 216 x 143 x 33/8.50 x 5.63 x 1.30 Packing Dimensions (WxDxH)(mm/in.) 276 x 185 x 98/10.87 x 728 x 3.86 276 x 185 x 98/10.87 x 728 x 3.86 Packing Dimensions (WxDxH)(mm/in.) 276 x 185 x 98/10.87 x 728 x 3.86 276 x 185 x 98/10.87 x 728 x 3.86 Packing Weight (kg/lb.) 1.41/3.11 1.50/3.31 Included accessories • RJ-45 - RS-232 cable for console connection • RI-45 - RS-232 cable for console connection • RI-45 res-232 res to 70°C to 70°C to 20°C to			-	-
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Physical Specifications Item Dimensions (WxDxH)(mm/in.) 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 Packing Dimensions (WxDxH)(mm/in.) 276 x 185 x 98/10.87 x 728 x 3.86 276 x 185 x 98/10.87 x 728 x 3.86 Packing Dimensions (WxDxH)(mm/in.) 276 x 185 x 98/10.87 x 728 x 3.86 276 x 185 x 98/10.87 x 728 x 3.86 Procking Temperature 0 × 0 × 185 x 98/10.87 x 728 x 3.86 276 x 185 x 98/10.87 x 728 x 3.86 Included accessories • Power adapter • Antenna Environmental Specifications Temperature 0 °C to 40°C/32°F to 104°F 0 °C to 40°C/32°F to 104°F 0 °C to 40°C/32°F to 104°F Humidify 10% to 90% (non-condensing) 10% to 90% (non-condensing) 10% to 90% (non-condensing) Storage Temperature -30°C to 70°C/-22°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) MTBF (hr) 44,000 44,000 44,000 40,000 Second to 80% (RCM, BSMI		nsumption (watt)		
Item Dimensions (WxDxH)(mm/in.) 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.) 1.04/2.29 1.14/2.51 (Antenna included) Packing Dimensions (WxDxH)(mm/in.) 276 x 185 x 98/10.87 x 728 x 3.86 276 x 185 x 98/10.87 x 728 x 3.86 Included accessories *Power adapter *Power adapter *Power adapter *Power adapter Included accessories *Ower adapter *RJ-45 - RS-232 cable for console connection *Antenna Environmental Specifications *Ower adapter *Ower adapter *Antenna Induify 10% to 90% (non-condensing) 10% to 90% (non-condensing) 10% to 90% (non-condensing) Storage Temperature -30°C to 70°C/-22°F to 158°F -30°C to 70°C/-22°F to 158°F environment Humidify 10% to 90% (non-condensing) 10% to 90% (non-condensing) MTBF (hr) 44,000 44,000 44,000 Certifications FCC Part 15 Class B), IC, CE EMC (Class B), RCM, BSMI SMM, UL Note: *This matrix with firmware ZLD 425 or later. *To matrix with firmware ZLD 425 or later. *To waite this the recommend maximum number of concurrent logged-in devices. <td>Heat dissipation</td> <td>on (BTU/hr)</td> <td>40.92</td> <td>61.38</td>	Heat dissipation	on (BTU/hr)	40.92	61.38
Item Weight (kg/lb.) 1.04/2.29 114/2.51 (Antenna included) Packing Dimensions (WxDxH)(mm/in.) 276 x 185 x 98/10.87 x 728 x 3.86 276 x 185 x 98/10.87 x 728 x 3.86 Included accessories • Power adapter • RJ-45 - RS-232 cable for console connection • Antenna Environmental Specifications • O°C to 40°C/32°F to 104°F • Antenna Storage environment Temperature • -30°C to 70°C/-22°F to 158°F • Tolk to 90% (non-condensing) MTBF (hr) 44,000 44,000 Certifications FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI RCM, BSMI Safety BSM, UL BSMI, UL Note: • 'This matrix with firmware ZLD 425 or later. • 'T-Actual performance may vary depending on network conditions and activated applications. • 'Avalen performance may vary depe	Physical Speci	fications		
Packing Dimensions (WxbxH)(mm/in.) 276 x 185 x 98/10.87 x 728 x 3.86 276 x 185 x 98/10.87 x 728 x 3.86 Packing Weight (kg/lb.) 1.41/3.11 1.50/3.31 Included accessories • Power adapter • Power adapter • RJ-45 - RS-232 cable for console connection • Power adapter • RJ-45 - RS-232 cable for console connection • Antenna Environmental Specifications • Temperature 0°C to 40°C/32°F to 104°F 0°C to 40°C/32°F to 104°F Invironment Temperature -30°C to 70°C/-22°F to 158°F -30°C to 70°C/-22°F to 158°F environment Temperature -30°C to 70°C/-22°F to 158°F -30°C to 70°C/-22°F to 158°F environment Humidify 10% to 90% (non-condensing) 10% to 90% (non-condensing) MTBF (hr) 44,000 44,000 44,000 Certifications FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI SGrety Safety BSMI, UL BSMI, UL BSMI, UL Note: *: Actual performance may vary depending on network conditions and activated applications. *: Yein Kinyaphut messions measured based on RFC 2544 (1,542-byte UDP packets). *: With Zyxel Device Upgrade License,	Item		•	
Packing Weight (kg/lb.) 1.41/3.11 1.50/3.31 Included accessories • Power adapter • Power adapter • RJ-45 - RS-232 cable for console connection • Antenna Environmental Specifications • Power adapter Included accessories • Power adapter • RJ-45 - RS-232 cable for console connection • Antenna Environmental Specifications • Temperature 0°C to 40°C/32°F to 104°F Included accessories 0°C to 40°C/32°F to 104°F • O°C to 40°C/32°F to 104°F environment Temperature -30°C to 70°C/-22°F to 158°F -30°C to 70°C/-22°F to 158°F environment Humidify 10% to 90% (non-condensing) 10% to 90% (non-condensing) MTBF (hr) 44,000 44,000 44,000 Certifications FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Safety BSMI, UL BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 425 or later. *: Atstal performance may vary depending on network conditions and activated applications. *: Weith Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *: Si Maximum assessions measured using the industry				
Included accessories Power adapter RJ-45 - RS-232 cable for console connection RJ-45 - RS-232 cable for console connection Antenna Environmental Specifications Properating environment Temperature O°C to 40°C/32°F to 104°F Storage environment Temperature -30°C to 70°C/-22°F to 158°F -30°C to 70°C/-22°F to 158°F MTBF (hr) 44,000 44,000 44,000 Certifications EMC FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Safety BSMI, UL BSMI, UL Note: *1 Actual performance may vary depending on network conditions and activated applications. YeN throughput measured based on RFC 2544 (1,518-byte UDP packets). YeN throughput measured based on RFC 2544 (1,528-byte UDP packets). YeN throughput measured based on RFC 2544 (1,528-byte UDP packets). YeN throughput measured based on RFC 2544 (1,528-byte UDP packets). YeN throughput measured based on RFC 2544 (1,528-byte UDP packets). YeN thr	Packing			
• Antenna Environment Temperature 0°C to 40°C/32°F to 104°F 0°C to 40°C/32°F to 104°F on C to 30°C to 30°C to 30°C to 30°C (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 Humidify 10% to 90% (non-condensing) 10% to 90% (non-condensing) MTBF (hr) 44,000 44,000 Certifications EMC FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Solution Storage * FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Solution Solution Solution * FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI BSMI, UL Note: *: This matrix with firmware ZLD 4.25 or later. *: Actual performance may vary depending on network conditions and activated applications. *: Maximum throughput based on RFC 2544 (1,548-byte UDP packets). *: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *: Maximum s			Power adapter	• Power adapter
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 Humidify 10% to 90% (non-condensing) 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 Humidify 10% to 90% (non-condensing) 10% to 90% (non-condensing) 10% to 90% (non-condensing) MTBF (hr) 44,000 44,000 44,000 Certifications FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Safety BSMI, UL BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 425 or later. *: This matrix with firmware ZLD 425 or later. *: This matrix with firmware ZLD 425 or later. *: Avalium throughput based on RFC 2544 (1,518-byte UDP packets). *: Yei Nyith Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *5: Maximum sessions measured using the industry standard IXIA kLoad testing tool. *6 Including Gateway-to-Gateway and Client-to-Gateway. *7: With Zyxel AP Controller License, this is the recommend maximum number of concurrent VPN users. *8 With Zyxel AP Controller License, thi	Included acces	ssories	• RJ-45 - RS-232 cable for console connection	
Humidify 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 Humidify 10% to 90% (non-condensing) 10% to 90% (non-condensing) MTBF (hr) 44,000 44,000 Certifications FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Safety BSMI, UL BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 425 or later. *: *: This matrix with firmware ZLD 425 or later. *1: Actual performance may vary depending on network conditions and activated applications. *: *: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *5: Maximum throughput based on RFC 2544 (1,424-byte UDP packets). *: *: This chulding Gateway-to-Gateway and Client-to-Gateway. *7: With Zyxel SL VPN License, this is the recommend maximum number of concurrent logged-in devices. *: *: Mix Azyael SL VPN License, this is the recommend maximum number of concurrent users.	Environmenta	Specifications		
Storage environment Temperature -30°C to 70°C/-22°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) MTBF (hr) 44,000 44,000 Certifications FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Safety BSMI, UL BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 4.25 or later. *: This matrix with firmware ZLD 4.25 or later. *: Yi: Actual performance may vary depending on network conditions and activated applications. *: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *5: Maximum throughput based on RFC 2544 (1,518-byte UDP packets). *: Nink Zyxel SSL VPN License, this is the recommend maximum number of concurrent logged-in devices. *6: Including Gateway-to-Gateway and Client-to-Gateway. *'? With Zyxel SSL VPN License, this is the recommend maximum AP capacity of concurrent users.		•		
environment Humidify 10% to 90% (non-condensing) 10% to 90% (non-condensing) MTBF (hr) 44,000 44,000 Certifications FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Safety BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 4.25 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). *3: VPN throughput measured using the industry standard IXIA IxLoad testing tool. *6: Including Gateway-to-Gateway and Client-to-Gateway. *7: With Zyxel SSL VPN License, this is the recommend maximum AP capacity of concurrent users. *8: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users. *8: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users.			-	
MTBF (hr) 44,000 44,000 Certifications FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Safety BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 4.25 or later. *: This matrix with firmware ZLD 4.25 or later. *: This matrix with firmware depending on network conditions and activated applications. *2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets). *: VPN throughput measured based on RFC 2544 (1,518-byte UDP packets). *4: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *: 5: Maximum sessions measured using the industry standard IMA IxLoad testing tool. *6: Including Gateway-to-Gateway and Client-to-Gateway. *?: With Zyxel SSL VPN License, this is the recommend maximum AP capacity of concurrent users. *8: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users.		•		
Certifications EMC FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI Safety BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 4.25 or later. *1: Actual performance may vary depending on network conditions and activated applications. *: A with Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *3: VPN throughput based on RFC 2544 (1,424-byte UDP packets). ** *4: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. ** *5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool. ** *6: Including Gateway-to-Gateway and Client-to-Gateway. ** *7: With Zyxel SSL VPN License, this is the recommend maximum AP capacity of concurrent users. **				
EMC RCM, BSMI RCM, BSMI Safety BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 4.25 or later. *1: Actual performance may vary depending on network conditions and activated applications. *: Actual performance may vary depending on network conditions and activated applications. *2: Maximum throughput based on RFC 2544 (1,518-byte UDP packets). *: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets). *3: VPN throughput bused on RFC 2544 (1,424-byte UDP packets). *: Sin Ximum sessions measured using the industry standard IXIA IxLoad testing tool. *5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool. *: With Zyxel SSL VPN License, this is the recommend maximum number of concurrent VPN users. *6: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users. *: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users.				
Safety BSMI, UL BSMI, UL Note: *: This matrix with firmware ZLD 4.25 or later. *: This matrix with firmware ZLD 4.25 or later. *1: Actual performance may vary depending on network conditions and activated applications. *: Naximum throughput based on RFC 2544 (1,518-byte UDP packets). *3: VPN throughput measured based on RFC 2544 (1,424-byte UDP packets). *: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool. *: Including Gateway-to-Gateway and Client-to-Gateway. *7: With Zyxel SSL VPN License, this is the recommend maximum number of concurrent VPN users. *: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users.	EMC			
Note: *: This matrix with firmware ZLD 4.25 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: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices. *5: Maximum sessions measured using the industry standard IXIA IxLoad testing tool. *6: Including Gateway-to-Gateway and Client-to-Gateway. *7: With Zyxel SSL VPN License, this is the recommend maximum number of concurrent VPN users. *8: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users.	Safety			
	*: This matrix wi *1: Actual perfor *2: Maximum th *3: VPN through *4: With Zyxel D *5: Maximum se *6: Including Ga *7: With Zyxel S *8: With Zyxel Al	mance may vary depending on networ roughput based on RFC 2544 (1,518-byt uput measured based on RFC 2544 (1,42 evice Upgrade License, this is the recor essions measured using the industry sto teway-to-Gateway and Client-to-Gate L VPN License, this is the recommend i P Controller License, this is the recomm	e UDP packets). 4-byte UDP packets). nmend maximum number of concurrent logged-in devices. Indard IXIA IxLoad testing tool. way. maximum number of concurrent VPN users. lend maximum AP capacity of concurrent users.	

Next Generation Unified Security Gateway

		Performance Series					
Model		USG60W	USG60	USG40W	USG40		
Hardware Spec	ifications						
10/100/1000 Mb	ps 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-mountabl	e	Yes	Yes	-	-		
anless		Yes	Yes	Yes	Yes		
	ty & Performance ^{*1} bughput (Mbps) ^{*2}	1,000	1,000	400	400		
VPN throughpu	• • •	180	180	100	100		
DP throughput	•	120	120	55	55		
V throughput		90	90	50	50		
• •	t (AV and IDP)*4	90	90	50	50		
	ices (default/max.)*5	128	128	64	64		
dax. TCP concu	Irrent sessions*6	40,000	40,000	20,000	20,000		
Max. concurren Psec VPN tunn		40	40	20	20		
Concurrent SSL default/max.)*8		5/20	5/20	5/15	5/15		
Customizable z	ones	Yes	Yes	Yes	Yes		
Pv6 support		Yes	Yes	Yes	Yes		
/LAN interface		16	16	8	8		
WLAN Manager							
P Controller (A		Yes	Yes	Yes	Yes		
/lanaged AP nu default/max.)*9		2/18	2/18	2/18	2/18		
(ey Software Fe							
irewall		Yes	Yes	Yes	Yes		
/irtual Private	Network (VPN)	Yes (JPSec, SSL, L2TP over JPSec)	Yes (JPSec, SSL, L2TP over JPSec)	Yes (JPSec, SSL, L2TP over JPSec)	Yes (IPSec, SSL, L2TP over IPSec		
Bandwidth mar	agement	Yes	Yes	Yes	Yes		
ogging and ma	*	Yes	Yes	Yes	Yes		
SL (HTTPS) ins		-	-	-	-		
Unified security	policy	Yes	Yes	Yes	Yes		
Zmode		Yes	Yes	Yes	Yes		
loud Helper		Yes	Yes	Yes	Yes		
Device HA		-	-	-	-		
icense Service.							
nti-Virus (AV)		Yes	Yes	Yes	Yes		
ntrusion Detec IDP) & Applicat	tion and Prevention tion Patrol	Yes	Yes	Yes	Yes		
Anti-Spam		Yes	Yes	Yes	Yes		
Content Filterin	ig (CF2.0) ^{*10}	Yes	Yes	Yes	Yes		
evice HA Pro		-	-	-	-		
lostpot Manag		-	-	-	-		
ower Requiren	nents						
ower 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.		
•	sumption (watt)	28.0 95.54	19.0	17.0	14.0		
Heat dissipation		90.04 	64.83	58.01	47.77		
Physical Specifi	Dimensions	272 × 187 × 36/	242 x 176 x 36/	216 x 143 x 33/	216 x 143 x 33/		
tem	(WxDxH)(mm/in.)	10.71 x 7.36 x 1.42	9.53 x 6.93 x 1.42	8.50 x 5.63 x 1.30	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 2.23 (W/O breacket)	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.)	2.42 (w breacket)	2.25/4.96	1.63/3.59	1.57/3.46		
ncluded access	sories	 Power adapter Rack mounting kit (optional, by regions) Antenna 	 Power adapter Rack mounting kit 	 Power adapter DB9 - RJ-45 cable for console connection Antenna 	 Power adapter DB9 - RJ-45 cable for console connection 		
Environmental	Specifications						
Operating	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F		
nvironment	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)				
Storage	Temperature	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°		
environment	Humidity			10% to 90% (non-condensing)			
/TBF (hr)		497,644	815,463.9	386,931.7	414,329.4		
Certifications							
ertifications		FCC Part 15 (Class B),	FCC Part 15 (Class B),	FCC Part 15 (Class B),	FCC Part 15 (Class B),		
MC		CE EMC (Class B), C-Tick (Class B), BSMI	CE EMC (Class B), C-Tick (Class B), BSMI	CE EMC (Class B), C-Tick (Class B), BSMI	CE EMC (Class B), C-Tick (Class B), BSMI		

*: This matrix with firmware ZLD 4.25 or later.
*1: Actual performance may vary depending on network conditions and activated applications.

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: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices.

*6: Maximum sessions measured using the industry standard IXIA IxLoad testing tool. *7: Including Gateway-to-Gateway and Client-to-Gateway.

*8: With Zyxel SSL VPN License, this is the recommend maximum number of

concurrent VPN users. *9: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users.

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

Security Feature Matrix

Next Generation Unified Security Gateway

lodel		Extreme Series		Advanced Series		
louel		USG1900	USG1100	USG310	USG210	USG110
ardware Spec	cifications					
)/100/1000 MB	ops RJ-45 ports	8 (configurab l e)	8 (configurable)	8 (configurable)	4 x LAN/DMZ, 2 x WAN, 1 x OPT	4 x LAN/DMZ, 2 x WA 1 x OPT
SB ports		2	2	2	2	2
onsole port		Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (DB9)
ack-mountab	le	Yes	Yes	Yes	Yes	Yes
inless		-	-	-	-	-
	ity & Performance"				1000	
PI firewall thre PN throughpu	oughput (Mbps) ²	7,000 900	6,000 800	5,000	1,900 500	1,600 400
PN throughput		650	550	650 450	350	300
/ throughput		600	500	400	300	250
	ut (AV and IDP)*4	600	500	400	300	250
oncurrent dev	vices	1,500/2,000	800/1,500	500/800	200/300	200/300
efault/max.)*						
	urrent sessions ^{*6}	500,000	500,000	200,000	80,000	60,000
ax. concurrer PN tunnels ^{*7}	nt IPsec	2,000	1,000	300	200	100
oncurrent SSI efault/max.)*		250/750	250/500	50/150	35/150	25/150
ustomizable z		Yes	Yes	Yes	Yes	Yes
v6 support		Yes	Yes	Yes	Yes	Yes
AN interface)	128	128	64	32	16
LAN Manage						
	APC) support	Yes	Yes	Yes	Yes	Yes
anaged AP nu efault/max.)*		2/66	2/66	2/34	2/34	2/34
y Software F	eatures					
ewa		Yes	Yes	Yes	Yes	Yes
rtual 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, L2T over IPSec)
ndwidth ma		Yes	Yes	Yes	Yes	Yes
gging and m		Yes	Yes	Yes	Yes	Yes
L (HTTPS) in	-	Yes	Yes	Yes	Yes	Yes
ified security	y policy	Yes	Yes	Yes	Yes	Yes
mode oud Helper		- Yes	- Yes	- Yes	- Yes	- Yes
vice HA		Yes	Yes	Yes	Yes	Yes
cense Service	Э	100	100	100	100	100
ti-Virus (AV))	Yes	Yes	Yes	Yes	Yes
	tion and Prevention	Yes	Yes	Yes	Yes	Yes
P) & Applicat	tion Patrol					
ti-Spam Intent Filterii		Yes Yes	Yes Yes	Yes Yes	Yes Yes	Yes Yes
vice HA Pro	ng (CF2.0) **	Yes	Yes	Yes	Yes	Yes
stpot Manag	rement	Yes	Yes	Yes	Yes	Yes
wer Requirer		105	105	105	105	105
wer input		100 - 240 V AC,	100 - 240 V AC,	100 - 240 V AC,	12 V DC, 3.33 A max.	12 V DC, 3.33 A max.
	nsumption (watt)	50/60 Hz, 1.3 A max. 58.5	50/60 Hz, 1.3 A max. 58.5	50/60 Hz, 1.3 A max. 58.5	37.0	37.0
at dissipatio		199.61	199.61	199.61	126.25	126.25
ysical Specif	fications					
m	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
	Dimensions	519 x 392 x 163/	519 x 392 x 163/	519 x 392 x 163/	351 x 149 x 243/	351 x 149 x 243/
cking	(WxDxH)(mm/in.)	20.43 x 15.43 x 6.42	20.43 x 15.43 x 6.42	20.43 x 15.43 x 6.42	13.82 x 5.87 x 9.57	13.82 x 5.87 x 9.57
	Weight (kg/lb.)	4.8/10.58	4.84.8/10.58	4.8/10.58	3.264/7.20	3.264/7.20
luded acces	sories	 Power cord Rack mounting kit 	 Power cord Rack mounting kit 	 Power cord Rack mounting kit 	 Power adapter Power cord 	Power adapter Power cord
vironment <u>al</u>	Specifications				 Rack mounting kit 	 Rack mounting kit
	Temperature	0°C to 40°C/	0°C to 40°C/	0°C to 40°C/ 22°E to 104°E	0°C to 40°C/	0°C to 40°C/
erating vironment	· · · · · · · · · · · · · · · · · · ·	32°F to 104°F 10% to 90%	32°F to 104°F 10% to 90%	32°F to 104°F 10% to 90%	32°F to 104°F 10% to 90%	32°F to 104°F 10% to 90%
	Humidity	(non-condensing) -30°C to 70°C/	(non-condensing) -30°C to 70°C/	(non-condensing) -30°C to 70°C/	(non-condensing) -30°C to 70°C/	(non-condensing) -30°C to 70°C/
orage	Temperature	-22°F to 158°F	-22°F to 158°F	-22°F to 158°F	-22°F to 158°F	-22°F to 158°F
vironment	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
BF (hr)		560,811.5	560,811.5	560,811.5	787,109.3	787,109.3
rtifications						
1C		FCC Part 15 (Class A), CE EMC (Class A),	FCC Part 15 (Class A), CE EMC (Class A),	FCC Part 15 (Class A), CE EMC (Class A),	FCC Part 15 (Class A), CE EMC (Class A),	FCC Part 15 (Class A CE EMC (Class A),
		C-Tick (Class A), BSMI	C-Tick (Class A), BSMI	C-Tick (Class A), BSMI	C-Tick (Class A), BSMI	C-Tick (Class A), BSN
fety		LVD (EN60950-1), BSM	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BS

applications.

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: With Zyxel Device Upgrade License, this is the recommend maximum number of concurrent logged-in devices.

*8: With Zyxel SSL VPN License, this is the recommend maximum number of

*9: With Zyxel AP Controller License, this is the recommend maximum AP capacity of concurrent users.

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

Product/Service Compatibility List

Next Generation Unified Security Gateway

Duaduat	Extreme Series		Advanced Se	eries		Performance	Series
Product	USG1900	USG1100	USG310	USG210	USG110	USG60/60W	USG40/40W
Security							
Anti-Virus	1 year/2 years						
IDP and Application Patrol	1 year/2 years						
Content Filtering 2.0	1 year/2 years						
Anti-Spam	1 year/2 years						
VPN							
SSL VPN Tunnels	Add 5/10/50 tunnels	Add 5/10 tunnels	Add 5/10 tunnels				
SSL VPN Client ^{*1}	For 1/5/10 clients						
IPSec VPN Client	For 1/5/10/50 clients						
Connectivity							
Concourrent Device Upgrade	100/300 nodes	100/300 nodes	100/300 nodes	100 nodes	100 nodes	-	-
Hotspot Management ^{*2}	1 year/ one-time	-	-				
Managed Aps	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs
Device HA Pro	One-time	One-time	One-time	One-time	One-time	-	-
Vantage Report	For 1/5/25/100 devices						

VPN Firewall

Dreduct	Medium-sized Businesses	Small- and Medium-sized Bus	inesses	Remote Offices/ Small Businesses	
Product	USG2200-VPN	ZyWALL 1100	ZyWALL 310	ZyWALL 110	USG20-VPN USG20W-VPN
VPN					
SSL VPN Tunnels	Add 5/10/50 tunnels	Add 5/10/50 tunnels	Add 5/10/50 tunnels	Add 5/10/50 tunnels	Add 5/10 tunnels
SSL VPN Client*1	For 1/5/10 clients	For 1/5/10 clients	For 1/5/10 clients	For 1/5/10 clients	For 1/5/10 clients
IPSec VPN Client	For 1/5/10/50 clients	For 1/5/10/50 clients	For 1/5/10/50 clients	For 1/5/10/50 c l ients	For 1/5/10/50 clients
Connectivity					
Concourrent Device Upgrade	100/300 nodes	100/300 nodes	100/300 nodes	100 nodes	-
Hotspot Management*2	1 year/one-time	1 year/one-time	1 year/one-time	1 year/one-time	-
Managed Aps	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs	-
Device HA Pro	One-time	One-time	One-time	One-time	-
Vantage Report	For 1/5/25/100 devices	For 1/5/25/100 devices	For 1/5/25/100 devices	For 1/5/25/100 devices	For 1/5/25/100 devices

*1: Support OS: MAC OS 10.7 or later

*2: Hotspot Management supports for ZyWALL 310, ZyWALL 1100 and USG2200-VPN in firmware ZLD4.20 or later; for ZyWALL 110 in firmware ZLD4.25 or later.

Access Point Compatibility List

	NWA5120 Series	NWA5000 Series	NWA3000-N Series	WAC6500 Series
Product	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
Data forwarding	Local bridge	Local bridge	Local bridge	Local bridge

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UAG4100/2100 Unified Access Gateway

High quality Internet service is no longer optional for hospitality businesses. It is a guest expectation and a key to customer satisfaction. Yet, providing satisfactory Internet access is not simply a matter of installing Ethernet cables and wireless access points where guests need them. Hospitality businesses need to address the issues of access management, regulation compliance, and providing sufficient bandwidth for an exploding amount of wireless mobile devices.

The Zyxel UAG4100/2100 Unified Access Gateway is a next-generation, allin-one wireless hotspot/access gateway designed to fulfill the hospitality challenges of both today and tomorrow. In addition to account management, billing, and data retention capabilities, the UAG4100/2100 offers premium features—like 802.11 a/b/g/n dual-radio Wi-Fi and a built-in WLAN controller to deliver better scalability, capacity, and performance to fulfill tomorrow's guest access demands.

Benefits

Increasing customer loyalty

Virtually everyone today has at least one wireless mobile device, like smartphones, tablets, and laptops computers. Yet, yesterday's hotspot gateways can no longer handle the exploding amount of wireless mobile devices that need Wi-Fi access. To satisfy this fast-growing demand, hospitality businesses need a solution that can provide greater Wi-Fi bandwidth, capacity and performance.



EEE 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 (UAG4100)



Integrated account generator, Web-based authentication portal and billing system



Supports external RADIUS servers



Per account bandwidth management



SP350E Service Gateway Printer enables oneclick account and billing generation



Built-in WLAN controller



Facilitates compliance with data retention regulations

Specifications

Model		UAG4100	UAG2100	
Product phot	:0			
Hardware Sp	acifications	The second	THE CONTRACTOR OF THE PARTY OF	
RJ-45 ports	ecifications	4 x LAN, 1 x WAN	4 x LAN, 1 x WAN	
		(10/100/1000 Mbps)(10/100/1000 Mbps)	(10/100/1000 Mbps)	
USB ports		2	2	
Ticket printe	r support	Yes (SP350E)	Yes (SP350E)	
System Capa	icity & Performance ^{*1}			
Routing throu	ughput (Mbps)*2	200	150	
Concurrent lo	ogins (default/max.)	200/300	100/200	
Max. concurr	ent sessions*3	40,000	20,000	
DHCP pool siz	ze	4,096	4,096	
Built-in	Static accounts	150	50	
account	Dynamic accounts	2,000	1,000	
generator WLAN Manag	ament			
Built-in WLAN		Yes	Yes	
	number (default/max.)	8/16	0/8	
SSID		8	8	
Wireless Spec	cifications			
Standard cor		802.11 a/b/g/n	802.11 a/b/g/n	
Wireless freq	-	Concurrent 2.4 & 5 GHz	Concurrent 2.4 & 5 GHz	
Radio		2	2	
SSID number		16	16	
Maximum	US (FCC) 2.4 GHz	24.3 dBm, 2 antennas	24.3 dBm, 2 antennas	
transmit	US (FCC) 5 GHz	25.8 dBm, 2 antennas	25.8 dBm, 2 antennas	
power (Max. total	EU (ETSI) 2.4 GHz	18.6 dBm (EIRP), 2 antennas	18.6 dBm (EIRP), 2 antennas	
channel)	EU (ETSI) 5 GHz	28.4 dBm (EIRP), 2 antennas	28.4 dBm (EIRP), 2 antennas	
No. of antenn	a	2.4 GHz: 2T2R MIMO 5 GHz: 2T2R MIMO	2.4 GHz: 2T2R MIMO 5 GHz: 2T2R MIMO	
		(Detachable, SMA-R)	(Detachable, SMA-R)	
Antenna gair	1	3 dBi	3 dBi	
Data rate		802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48	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	and 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps	
		802.11n: up to 300 Mbps in MCS15	802.11n: up to 300 Mbps in MCS15	
		(40 MHz; GI = 400 ns)	(40 MHz; GI = 400 ns)	
Receive	2.4 GHz	11 Mbps ≤ -87 dBm; 54 Mbps ≤ -74 dBm	11 Mbps ≤ -87 dBm; 54 Mbps ≤ -74 dBm	
sensitivity		HT20 ≤ -71 dBm; HT40 ≤ -68 dBm	HT20 ≤ -71 dBm; HT40 ≤ -68 dBm	
	5 GHz	54 Mbps ≤ -75 dBm	54 Mbps ≤ -75 dBm	
		HT20, MCS15 ≤ -71 dBm; HT40, MCS15 ≤ -69 dBm	HT20, MCS15 ≤ -71 dBm; HT40, MCS15 ≤ -69 dBm	

Model		UAG4100	UAG2100
AAA & Billing			
	uthentication	Yes	Yes
RADIUS client		Yes	Yes
	h/Accumulation billing	Yes/Yes	Yes/Yes
modes	,	,	
Customizable	e billing profiles	Yes	Yes
Account oper	rator	Yes	Yes
User agreeme	ent	Yes	Yes
SMS ticketing	g	Yes	License
Security	-		
SPI firewall		Yes	Yes
Layer 2 isolat	tion	Yes	Yes
VPN pass-thr		Yes	Yes
802.1x suppor	•	Yes	Yes
Management			
Syslog		Yes	Yes
SNMP		Yes	Yes
Limited user	sessions	Yes	Yes
Pass-through	naddress	Yes (IP)	Yes (IP)
Walled garde		Yes	Yes
Customizable login page		Yes	Yes
	e user agreement page	Yes	Yes
Power Requir	rements		
Power input		12 V DC, 3 A max.	12 V DC, 3 A max.
Max. power c	onsumption (watt)	28	28
Physical Spec	cifications		
Item	Dimensions (WxDxH) (mm/in.)	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
	Weight (kg/lb.)	1.46/3.22	1.46/3.22
Packing	Dimensions (WxDxH) (mm/in.)	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
	Weight (kg/lb.)	2.3/5.07	2.3/5.07
Included acc		Power adapter	Power adapter
		• Rack mounting kit	• Rack mounting kit
		• Antenna	• Antenna
Environment	al Specifications		
Operating	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F
environment	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage	Temperature	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F
environment	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hr)		497,644	497,644
Certification	S		
EMC		FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI	FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI
Safety		LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI
Note		· · · ·	

Note:

*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.

Features

Networking

- Universal Plug and Play (UPnP)
- IP Plug and Play (iPnP)
- NAT/PAT
- Static routing and policy routing
- DHCP client/server/relay
- HTTP proxy support
- SMTP redirection
- VPN 1-to-1 mapping
- VPN pass-through
- WAN client: static, DHCP, PPPoE, PPTP
- Tagged VLAN (802.1Q)
- DDNS

Security

- 64/128-bit WEP data encryption
- WPA-PSK TKIP data encryption (Wi-Fi Certified)
- WPA2-PSK AES data encryption (Wi-Fi Certified)
- WPA/WPA2-Enterprise
- Stateful packet inspection firewall
- L2 isolation
- User-aware security policy
- SSL login page
- Session limit
- IP pass-through (white list)

AAA & Billing

- Web-based authentication
- User agreement login

Accessories

- External RADIUS support
- Secondary RADIUS server support
- Built-in billing system
 Time-to-finish accounting mode
 Accumulation accounting mode
- 10 customizable billing profiles
- Built-in account generator
- Multiple logins with pre-configured accounts
- Bandwidth management (per account)
- Credit card billing via PayPal
- Thermal Printer supper (SP350E)
- SMS ticketing support with ViaNett*
- * UAG2100 SMS ticketing supports by license

Marketing

- Advertisement link
- Walled garden
- Login page redirection
- Portal page
- Customizable login page
- Customizable information window
- Customizable user agreement page

System Management

- Administrator access: WAN and LAN
- Web Management (HTTP/HTTPS)
- Secure administrator IP address
- SNMP v2c (MIB-II)
- Configuration backup and restoration

- Role-based administration (Admin, guest operator)
- Command line interface (console/ web console/SSH)
- Monitoring and Reporting
- Email log
- Syslog: account, IP, MAC, traffic & protocol (data retention)
- Session list
- Account list
- Billing report
- DHCP client list

WLAN Management

- Zyxel AP Controller (APC) 1.97 compliant
- Client RSSI threshold to prevent sticky clients
- IEEE 802.1x authentication
- Captive portal Web authentication
- Customizable captive portal page
- RADIUS authentication
- Wi-Fi Multimedia (WMM) wireless QoS
- CAPWAP discovery protocol

Model	Feature
SP350E	• Buttons: 3
Service Gateway	• Paper roll width: 58 (+0/-1) mm
Printer	 Interface: 10/100 Mbps RJ-45 port
Jest Contraction of the second s	 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.)

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UAG5100 Unified Access Gateway

Providing Internet access in public areas is not the same as providing Internet access in homes or offices. Public Internet users come and go in masses, which makes access management and preventing bandwidth abuse especially challenging. The anonymity of public users makes it especially challenging to retain user data for legal purposes. Without the right Internet access solution, there is no way for public areas or venues like hotels to provide high-quality but controlled Internet access, let alone generate revenue from Internet services.

The Zyxel UAG5100 is a high-performance access gateway designed to manage guest access and generate revenue in public Internet access networks. Supporting up to 800 concurrent logins, the UAG5100 is perfect for medium-sized venues like hotels, convention centers or public libraries. It facilitates compliance with data retention laws, and ensures high-quality, always online Internet access with dual-WAN and per account bandwidth management capabilities. It also reduces hardware expenditure for BYOD deployments with a WLAN controller built-in.

Benefits

Deploy with confidence

The Zyxel UAG5100 has the capacity to provide public Internet access to hundreds of users in medium-sized venues like hotels, libraries and convention centers. It supports 500 concurrent logins by default, and up to 800 via license upgrade. With dual-WAN support and per account bandwidth management, the UAG5100 maximizes Internet uptime and optimizes access quality to keep customers and visitors satisfied.



Supports 500 concurrent logins by default and up to 800 via license upgrade



Integrated account generator, Web-based authentication portal and billing system



Supports up to ten (10) SP350E Service Gateway Printers and SMS ticketing with ViaNett protocol



Per account bandwidth management





Dual-WAN load-balancing, failover and fall back support



Built-in WLAN controller (supports 16 APs by default and up to 32 APs via license upgrade)



Facilitates compliance with data retention regulations

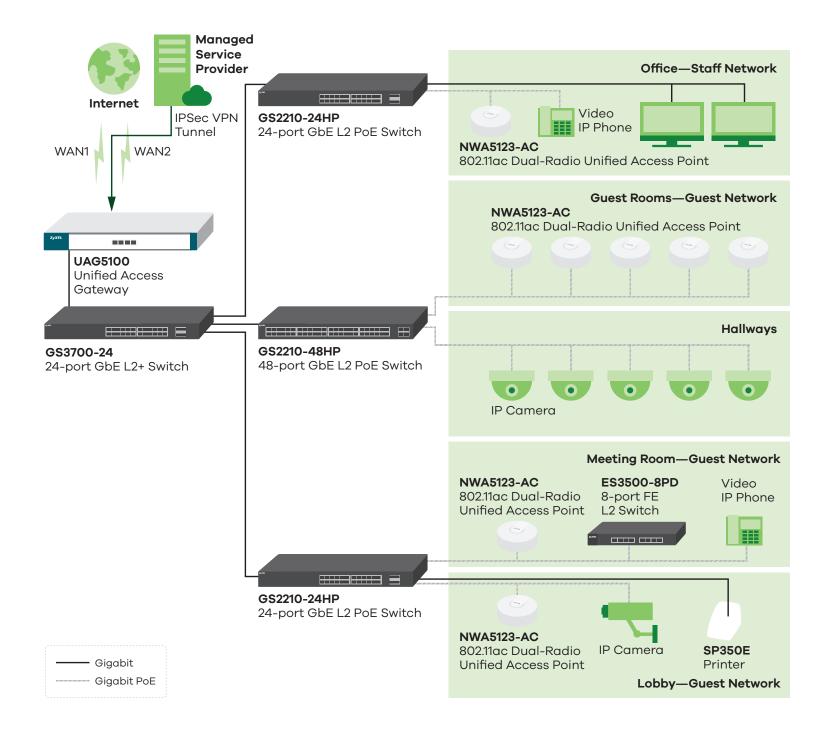


Provides ten (10) IPSec VPN tunnels for remote management by MSPs

Key Applications

Hotel Guest Access

- Users can connect two Ethernet WAN links to the UAG5100 to get higher uplink bandwidth with load balancing or WAN backup with failover
- The integrated WLAN controller enables users to centrally manage up to 32 APs with the UAG5100
- The SP350E printer can be installed at the reception desk to enable staff members to generate guest accounts with one click
- Managed service providers can remotely manage and service the UAG5100 with an IPSec VPN tunnel



Specifications

Model Name	UAG5100
Product name	Unified Acces Gateway
	ZyXEL uudstoo
Hardware Specifications	
RJ-45 ports	3 x LAN, 2 x WAN (10/100/1000 Mbps)
USB ports	2
Ticket printer support	Yes (SP350E)
System Capacity & Performance ¹	
Routing throughput (Mbps) ^{*2}	250
Concurrent logins (default/max.) Max. concurrent sessions ^{*3}	500/800
DHCP pool size	80,000 4,096
Built-in account Static accounts	300
generator Dynamic accounts	4,000
WLAN Management	
Built-in WLAN controller	Yes
Managed AP number (default/max.)	16/32
SSID	-
WAN	
WAN load-balancing/failover	Yes/Yes
AAA & Billing	
Web-based authentication	Yes
RADIUS client	Yes
Time-to-finish/Accumulation billing modes	Yes/Yes
Customizable billing profiles	Yes
Account operator	Yes
User agreement SMS ticketing	Yes Yes
Security	
SPI firewall	Yes
Layer 2 isolation	Yes
VPN pass-through	Yes
IPSec VPN	Yes (10 tunnels)
802.1x support	Yes
Management	
Syslog	Yes
SNMP	Yes
Limited user sessions	Yes
Pass-through address	Yes (IP)
Walled garden	Yes
Customizable login page	Yes
Customizable user agreement page	Yes
Power Requirements Power input	802.3at PoE Plus input; 100 - 240 V AC, 50/60 Hz, 0.6 A max.
Max. power consumption (watt)	25
	20

Model Name		UAG5100			
Physical Specif	ications				
Item	Dimensions (WxDxH)(mm/in.)	382 x 205 x 44/15.04 x 8.07 x 1.73			
	Weight (kg/lb.)	2.36/5.20			
Packing	Dimensions (WxDxH)(mm/in.)	444 x 295 x 152/17.48 x 11.61 x 5.98			
	Weight (kg/lb.)	3.7/8.16			
Included accessories		Power cordRack mounting kit			
Environmental	Specifications				
Operating	Temperature	0°C to 45°C/32°F to 113°F			
environment	Humidity	10% to 90% (non-condensing)			
Storage	Temperature	-40°C to 70°C/-40°F to 158°F			
environment	Humidity	10% to 90% (non-condensing)			
MTBF (hr)		71,032			
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.

Features Set

Networking

- Dual-WAN load balancing, failover and fallback
- Universal Plug and Play (UPnP)
- IP Plug and Play (iPnP)
- NAT/PAT
- Static routing and policy routing
- DHCP client/server/relay
- HTTP proxy support
- SMTP redirection
- VPN 1-to-1 mapping
- VPN pass-through
- WAN client: static, DHCP, PPPoE, PPTP
- Tagged VLAN (802.1Q)
- DDNS

Security

- Stateful packet inspection firewall
- 10-channel IPSec VPN support (siteto-site)
- L2 isolation
- User-aware security policy
- Session limit
- IP pass-through (white list)
- Content Filter
- APP Portal

AAA & Billing

- Web-based authentication
- User agreement login

- External RADIUS support
- Secondary RADIUS server support
- Built-in billing system:
- Time-to-finish accounting mode
- Accumulation accounting mode
- 10 customizable billing profiles
- Built-in account generator
- Multiple logins with pre-configured accounts
- Bandwidth management (per account)
- Credit card billing via PayPal
- Thermal printer supper (up to 10)
- SMS ticketing support with ViaNett

Marketing

- Advertisement link
- Walled garden
- Login page redirection
- Portal page
- Customizable login page
- Customizable information window
- Customizable user agreement page

System Management

- Administrator access: WAN and LAN
- Web management (HTTP/HTTPS)
- Secure administrator IP address
- SNMP v2c (MIB-II)
- Configuration backup and restoration

- Role-based administration (Admin, guest operator)
- Command line interface (console/ web console/SSH)

Monitoring and Reporting

- Email log
- Syslog: account, IP, MAC, traffic & protocol (data retention)
- Session list
- Account list
- Billing report
- DHCP client list
- Printer IP discovery support

WLAN Management

- Zyxel AP Controller (APC) 1.97 compliant
- Client RSSI threshold to prevent sticky clients
- IEEE 802.1x authentication
- Captive portal Web authentication
- Customizable captive portal page
 - RADIUS authentication
 - Wi-Fi Multimedia (WMM) wireless QoS
 - CAPWAP discovery protocol

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UAG50 Unified Access Gateway

It's quite troublesome to deploy networks in smaller public areas such as coffee shops, bistros or bars. Providing Internet access is always a necessary but tiring job to meet customer expectations, however venue owners must complete complex Internet framework setup tasks to manage access and prevent bandwidth abuse.

The Zyxel UAG50 Unified Access Gateway is a brand-new all-in-one access hotspot that combines a wireless access gateway and a built-in thermal ticket printer. The device is designed to fulfill the needs of small venue owners with limited resources to provide the best services and quality with less setting and management effort.

Benefits

New All-in-One hotspot with the best TCO

The Zyxel UAG50 is a brand-new All-in-One wireless hotspot/access gateway that integrates AP, router, AAA gateway and thermal printer functions, and it generates user accounts and passwords for Internet access with just a press on the button to relieve receptionists from complicated operations. With the Zyxel UAG50, multi-device deployment, integration and maintenance routines are no longer headaches for venue owners.

Generating revenue

The Zyxel Unified Access Gateway is designed with advanced billing, user authentication and access control features that help venue owners service guest accounts, block unauthorized access and generate revenue with their Internet services. It gives owners the flexibility to offer Wi-Fi access as a free service, a tiered service (premium when a purchase is made) or a paid service, depending on the preferred decision for the venue.



Specifications

Model

UAG50



Hardware Specification	ons					
10/100 Mbps RJ-45 po	orts	1 x USB LAN, 1 x WAN				
USB ports		1				
Ticket printer support	t	Yes (All-in-One)				
System Capacity & Pe	erformance ^{*1}					
Routing throughput (N	Mbps) ^{*2}	> 85Mbps (TCP upstream)				
Concurrent Device Up	grade (default/max.)	100/100				
Max. concurrent sessi	ions*3	16,385				
DHCP pool size		253				
Built-in account	Static accounts	-				
generator	Dynamic accounts	256				
Wireless Specification						
Standard compliance	•	802.11 b/g/n				
Wireless frequency		2.4 GHz				
Radio		1				
SSID number		8				
Maximum transmit	US (FCC) 2.4 GHz	18 dBm, 2 antennas				
power (Max. total channel)	EU (ETSI) 2.4 GHz	18 dBm (EIRP), 2 antennas				
No. of antenna		2.4 GHz: 2T2R MIMO (Detachable, SMA-R)				
Antenna gain		2 dBi				
Data rate		802.11 b/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	11b: -71 dBm @10% PER; 11g: -71 dBm @10% PER; 11n: -85 dBm @10% PER				
AAA & Billing						
Web-based authentic	ation	Yes				
RADIUS client		Yes				
Time-to-finish/Accum	ulation billing modes	Yes/Yes				
Customizable billing p	profiles	Yes				
Account operator		Yes				
User agreement		Yes				
SMS ticketing		-				
Security						
Firewall		Yes				
Layer 2 isolation		Yes				
VPN pass-through		Yes				
IPSec VPN		-				
802.1x support		Yes				
Management						
Syslog		Yes				
SNMP		Yes (read only)				
Limited user sessions		Yes				
Pass-through address	3	Yes				
Walled garden		Yes				





Switch

Fixed-Port Switch Quick Finder

Switch Class	Series	Performance	Model	
	1000 Carias	Gigabit Ethernet	XGS4600-32	
L3 Managed	4600 Series	with 10G Uplink	XGS4600-32F	zon belefekteren inderstanden der HTT TOTAL COM CO
	4500 Series	Gigabit Ethernet with 10G Uplink	XGS-4528F	
	3900 Series	10 Gigabit Ethernet with 40GbE Uplink	XS3900-48F	201 Participation (Alternational Production Residence) (日本) - 通信信信信 「10月月月月月月月月月月月日) - 通信信信信 「10月月月月月月月月月月日」 - 11日信信信 「10月月月月月日日」
		10 Gigabit Ethernet	XS3700-24	yan as a sa a sa a sa a sa a sa a sa a s
			XGS3700-24	
		Gigabit Ethernet with	XGS3700-24HP	
	3700 Series	10G Uplink	XGS3700-48	
			XGS3700-48HP	
		Gigabit Ethernet	GS3700-24	
			GS3700-24HP	
			GS3700-48	
			GS3700-48HP	
L2 Managed	3500 Series	Fast Ethernet	ES3500-8PD	
	0000 00103		ES3500-24	
			XGS2210-28	
		Gigabit Ethernet with	XGS2210-28HP	
		10G Uplink	XGS2210-52	
			XGS2210-52HP	
			GS2210-8	
	2210 Series		GS2210-8HP	∰ _###₩#:0:@@j
	-		GS2210-24	
		Gigabit Ethernet	GS2210-24HP	
			GS2210-24LP	
			GS2210-48	
			GS2210-48HP	

Key Features

Model	Ports	Key Features
XS1920-12	10-port 10GBASE-T 2 x 10GbE combo ports	 Upgrades your network to 10GbE connectivity easily and economically Simplified configuration with user-friendly web-based management GUI Flexible 10G connection to 10G servers and network storage through both copper and fiber Zyxel One Network experience enables simple network management and maintenance Dual firmware images and configuration ensure network availability Future-proofed with IPv6 support Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect
GS1920-24	24-port 1000BASE-T 4 x GbE combo ports	
GS1920-24HP	24-port 1000BASE-T PoE 4 x GbE combo ports	• GbE RJ-45, GbE combo (RJ-45/SFP) and fixed GbE SFP connectivity • PoE models comply with IEEE 802.3at PoE Plus with 375 W power budget
GS1920-48	44-port 1000BASE-T 2 x GbE SFP slots 4 x GbE combo ports	 Reliable network availability with Loop Guard, IPSG, and CPU protection RADIUS, static MAC forwarding and 802.1X authentication-enhance network security Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect
GS1920-48HP	48-port 1000BASE-T PoE 2 x GbE SFP slots 4 x GbE combo ports	
GS1900-8	8-port 1000BASE-T	
GS1900-8HP	8-port 1000BASE-T PoE	
GS1900-10HP	8-port 1000BASE-T PoE 2 x GbE SFP slots	
GS1900-16	16-port 1000BASE-T	• Easy browser-based switch management • Quick and easy set up wizard
GS1900-24E	24-port 1000BASE-T	 Advanced network error prevention features (loop protection, dual images, storm control, DoS and SSL) Fanless design (GS1900-8/8HP/10HP/16/24/24E)
GS1900-24	24-port 1000BASE-T 2 x GbE SFP slots	 Green Ethernet IEEE 802.3az support and intelligent Zyxel green features High-power PoE support IEEE 802.3at (GS1900-8HP/10HP/24HP/48HP)
GS1900-24HP	24-port 1000BASE-T PoE 2 x GbE SFP slots	Streamlined network initialization by supporting ZON utility
GS1900-48	48-port 1000BASE-T 2 x GbE SFP slots	
GS1900-48HP	24-port 1000BASE-T 24-port 1000BASE-T PoE 2 x GbE SFP slots	
GS1200-5HP	1-port 1000BASE-T 4-port 1000BASE-T PoE	 Four Gigabit high-power PoE+ ports 60 watt total PoE budget Intuitive Web management
GS1200-8HP	4-port 1000BASE-T 4-port 1000BASE-T PoE	 Quality of Service for better traffic control Multicast IGMP snooping v1/v2 and v3 compatible for streaming applications Virtual LAN for enhanced network security
GS1100-8HP	4-port 1000BASE-T 4-port 1000BASE-T PoE	
GS1100-10HP	8-port 1000BASE-T PoE 2 x GbE SFP slots	• Non-blocking, wire-speed transmission • Auto MDI/MDI-X support
GS1100-16	16-port 1000BASE-T	 IEEE 802.3az compliant Fanless design for silent operation IEEE 802.3x flow control supported
GS1100-24	24-port 1000BASE-T 2 x GbE SFP slots	 IEEE 802.1p CoS supported Jumbo frame support (up to 9 K bytes)
GS1100-24E	24-port 1000BASE-T	
ES1100-8P	4-port 10/100BASE-T 4-port 10/100BASE-T PoE	
ES1100-16P	8-port 10/100BASE-T 8-port 10/100BASE-T PoE	 Non-blocking, wire-speed transmission Auto MDI/MDI-X support
ES1100-16	16-port 10/100BASE-T	 IEEE 802.3az draft Energy Efficient Ethernet compliant (ES1100-16/24/24E) Fanless design for silent operations (ES1100-8P/16/24E/24)
ES1100-24E	24-port 10/100BASE-T	 IEEE 802.3x flow control supported IEEE 802.1p CoS supported
ES1100-24	24-port 10/100BASE-T	
RGS200-12P	8 x 1000BASE-T 4 x GbE SFP slots	 Wide-ranging operating temperature design from -40°C to 75°C Fanless design and compact mechanism with IP30 standard Redundant ring technology with quick failover in less than 20 ms Dual power inputs (12 V - 58 V DC) Full PoE+ support and high PoE power budget up to 240 W
RGS100-5P	4 x 1000BASE-T 1 x GbE SFP slot	 Wide-ranging operating temperature design from -40°C to 75°C Fanless design and compact mechanism with IP30 standard All PoE ports support PoE+ and high PoE power budget up to 120 W Dual power inputs (12 V - 58 V DC)

LAN Switches Feature Matrix

Madal	Switch 4600 Se	eires	Switch 4500 Series	Switch 3900 Series	Switch 3700 Series	vitch 3700 Series			
Model	XGS4600-32	XGS4600-32F	XGS-4528F	XS3900-48F	XS3700-24	XGS3700-24	XGS3700-24HP	XGS3700-48	
Switch class	Layer 3	Layer 3	Layer 3	Layer 2	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	
Hardware Total port count	32	32	28	52	24	28	28	52	
100 Mbit	-	-	-	-	-	-	-	-	
RJ-45 ports 100 Mbit									
RJ-45 PoE ports	-	-	-	-	-	-	-	-	
100 Mbit SFP slots	-	-	-	-	-	-	-	-	
10 Gigabit RJ-45 ports	-	-	-	-	8	-	-	-	
1 Gigabit RJ-45 ports	24	-	-	-	-	24	-	48	
1 Gigabit	_	_	_	_	_	_	24		
RJ-45 PoE ports 1 Gigabit SFP slots	_	24			-		-		
10 Gigabit		27							
combo ports (RJ-45/SFP+)	-	-	-	-	4	-	-	-	
Gigabit combo	4	4	24	-	-	_	-	_	
ports (RJ-45/SFP) 10 Gigabit	-								
CX4 ports	-	-	2	-	-	-	-	-	
10 Gigabit module	-	-	1	-	-	-	-	-	
10 Gigabit SFP+ slots	4	4	-	48	12	4	4	4	
40-Gigabit QSFP+	-	-	-	4	-	-	-	-	
Backplane bandwidth (Gbps)	136	136	144	1,280	480	128	128	176	
Forwarding rate (Mpps)	101.1	101.1	107.1	952.4	357.14	95	95	131	
MAC addresses	32 K	32 K	8 K	128 K	16 K	16 K	16 K	16 K	
table Management	J∠ N	JZN	υN	120 N					
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
CLI/Web GUI	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	
iStacking (single IP management)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Out-of-band	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
management port		tes	tes	tes	tes	tes	tes	tes	
Routing/Redundanc OSPF	y Yes	Yes	Yes	-	-	-	-	-	
RIP v1, v2	Yes	Yes	Yes	-	-	-	-	-	
Static IP routing	Yes	Yes	Yes	-	Yes	Yes	Yes	Yes	
VRRP Spanning Tree	Yes	Yes	Yes	-	Yes	Yes	Yes	Yes	
(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	Yes	
Quality of Service									
Priority queues Data prioritization	8	8	8	8	8	8	8	8	
(SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	
Guest VLAN IGMP snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
(v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
MVR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
DVMRP	Yes	Yes	Yes	-	-	-	-	-	
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Security									
MAC freeze/ intrusion lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
802.1X	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
authentication TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
ACL security filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
L2/L3/L4 Sflow	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
CPU protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Green Features									
Fanless IEEE Energy-	-	-	-	-	-	-	-	-	
Efficient-Ethernet	Yes	Yes	-	-	Yes	Yes	Yes	Yes	
Others MTBF (hr)	860,611	794,270	125,667	156,472	446,035	280,000	220,000	250,000	
Heat dissipation	160.27	204.94	289.85	1,024.32	Single PSU: 487.971	Single PSU: 57.8	Single PSU: 534.3	Single PSU: 74.7	
(BTU/hr)		204.94	209.00	1,024.32	Dual PSU: 549.01	Dual PSU: 70.3	Dual PSU: 1,098.5	Dual PSU: 87.6	
Physical Specification Dimensions	ons 441 x 270	441 x 270	438 x 310	440 x 455	440 x 438 x 44/	440 x 437 x 40/	440 x 437 x 40/	440 x 437 x 40/	
(WxDxH)(mm/in.)	x 44/	x 44/	x 44.5/	x 43/	17.32 x 17.24 x 1.73	17.32 x 17.2 x 1.57	17.32 x 17.2 x 1.57	17.32 x 17.2 x 1.57	
	17.36 x 10.63 x 1.73	17.36 x 10.63 x 1.73	17.24 x 12.20 x 1.75	17.32 x 17.91 x 1.69					
Weight (kg/lb.)	3.96/8.73	4.21/9.28	4.9/10.80	10.2/22.49	7.392/16.3	7.27/16.03	7.55/16.64	7.57/16.69	
	• Power cord • Rack	 Power cord Rack 	 Power cord Console 	 Power cord Rack 	 Power cord Rack mounting 	Power cordRack mounting	Power cordRack mounting	Power cordRack mounting	
Included accessories	mounting kit	mounting kit	cable • Rack	mounting kit	kit	kit	kit	kit	
uccessories			mounting kit						
			• CX-4 cable						

	Switch 3700 Series					Switch 3500 Serie	e
Model	XGS3700-48HP	GS3700-24	GS3700-24HP	GS3700-48	GS3700-48HP	ES3500-24	s ES3500-8PD
Switch class	Layer 2 Plus (Layer 3 Lite)	Layer 2	Layer 2				
lardware							
otal port count	52	28	28	52	52	28	10
00 Mbit	-	-	-	-	-	24	8
2J-45 ports 00 Mbit RJ-45							
PoE ports	-	-	-	-	-	-	
00 Mbit SFP slots	-	-	-	-	-	-	-
0 Gigabit 1J-45 ports	-	-	-	-	-	-	-
Gigabit RJ-45 ports	_	24	-	48	-	-	_
Gigabit RJ-45	48		24		48	_	
oE ports		-		-		-	-
Gigabit SFP slots D Gigabit combo	-	4	4	4	4	-	-
orts (RJ-45/SFP+)	-	-	-	-	-	-	-
igabit combo ports	_	-	_	-	_	4	2
RJ-45/SFP) D Gigabit CX4 ports	_	_	_	-	_		_
) Gigabit module	-	-	-	-	-	-	_
) Gigabit SFP+ slots	4	-	-	-	-	-	_
0-Gigabit QSFP+	-	-	-	-	-	-	-
ackplane							FG
andwidth (Gbps)	176	56	56	104	104	12.8	5.6
orwarding rate Apps)	131	42	42	77	77	9.6	4.17
AC addresses table	16 K						
lanagement							
Pv6 management	Yes						
LI/Web GUI	Yes/Yes						
Stacking (single P management)	Yes						
ut-of-band							
nanagement port	Yes						
outing/Redundancy							
SPF	-	-	-	-	-	-	-
IP v1, v2	-	-	-	-	-	-	-
tatic IP routing	Yes	Yes	Yes	Yes	Yes	-	-
RRP panning Tree	Yes	Yes	Yes	Yes	Yes	-	-
STP/MSTP/RSTP)	Yes/Yes/Yes						
edundant power upport	Yes	Yes	Yes	Yes	Yes	-	-
uality of Service							
riority queues	8	8	8	8	8	8	8
ata prioritization	Yes/Yes/Yes						
SPQ/WRR/WFQ)							
Juest VLAN JMP snooping	Yes						
/1/v2/v3)	Yes						
IVR	Yes						
umbo frame	Yes						
orwarding VMRP	-	-	_	-	_	-	_
02.1p class of							
ervice	Yes						
ecurity							
IAC freeze/ ntrusion lock	Yes						
02.1X	Vaa	Vee	Vaa	Vee	Vaa	Vaa	Vee
uthentication	Yes						
ACACS+/RADIUS	Yes						
CL security filter 2/L3/L4	Yes						
flow	Yes						
PU protection	Yes						
reen Features							
anless	-	-	-	-	-	Yes	Yes
EEE Energy- fficient-Ethernet	Yes						
thers							
ITBF (hr)	200,000	280,000	220,000	250,000	200,000	133,798	485,196
leat dissipation	Single PSU: 1,898.3	Single PSU: 173.9	Single PSU: 1,794.7	Single PSU: 242.5	Single PSU: 1,862.9	48	
BTU/hr)	Dual PSU: 3,823.6	Dual PSU: 214.5	Dual PSU: 3,707.7	Dual PSU: 279.3	Dual PSU: 3,789.5	40	32.4
Physical Specification		440 407 101	440 467 101	440 407 101	110 107 101	110 000 115	045.5 100
vimensions WxDxH)(mm/in.)	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 200 x 44.5/ 17.32 x 7.87 x 1.75	215.5 x 123 x 42/ 8.48 x 4.84 x 1.6
Veight (kg/lb.)	8.02/17.68	7.24/15.96	7.44/16.4	7.55/16.64	8/17.64	2.6/5.73	1.04/2.29
	 Power cord 						
ncluded Iccessories	 Rack mounting kit 	 Power adapte Rack mounting kit 					

Model	Switch 2210 Ser	ies						
	XGS2210-28	XGS2210-28HP	XGS2210-52	XGS2210-52HP	GS2210-8	GS2210-8HP	GS2210-24	GS2210-24HP
Switch class	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Hardware								
Total port count 100 Mbit	28	28	52	52	10	10	28	28
RJ-45 ports	-	-	-	-	-	-	-	-
100 Mbit RJ-45 PoE ports	-	-	-	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	-	-	-	-	-
1 Gigabit	24	_	48	_	8	-	24	-
RJ-45 ports 1 Gigabit RJ-45		0.4		40		2		0.4
PoE ports	-	24	-	48	-	8	-	24
1 Gigabit SFP slots 10 Gigabit combo	-	-	-	-	-	-	-	-
ports (RJ-45/SFP+)	-	-	-	-	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	-	-	-	-	2	2	4	4
10 Gigabit CX4 ports	-	-	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-	-	-
10 Gigabit	4	4	4	4	-	-	-	-
SFP+ slots 40-Gigabit QSFP+	-	-	-	-	-	-	-	-
Backplane	128	128	176	176	20	20	56	56
bandwidth (Gbps) Forwarding rate								
(Mpps)	95.2	95.2	130.9	130.9	15	15	41.7	41.7
MAC addresses table	16 K	16 K	16 K	16 K	16 K	16 K	16 K	16 K
Management								
IPv6 management CLI/Web GUI	Yes Yes/Yes	Yes Yes/Yes	Yes Yes/Yes	Yes Yes/Yes	Yes Yes/Yes	Yes Yes/Yes	Yes Yes/Yes	Yes Yes/Yes
iStacking (single IP	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
management) Out-of-band	res	res	Yes	res	res	res	res	Yes
management port	-	-	-	-	-	-	-	-
Routing/Redundancy								
OSPF RIP v1, v2	-	-	-	-	-	-	-	-
Static IP routing	Yes	Yes	Yes	Yes	-	-	-	-
VRRP	-	-	-	-	-	-	-	-
Spanning Tree (STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Redundant power	_	_	_	_	_	_	_	_
support Quality of Service								
Priority queues	8	8	8	8	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
(v1/v2/v3) MVR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
forwarding DVMRP	-	-	-	-	_	-	-	-
802.1p class of	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
service Security								
MAC freeze/	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
intrusion lock 802.1X								
authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS ACL security filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sflow	Yes	Yes	Yes	Yes	-	-	-	-
CPU protection Green Features	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Fanless	Yes	-	-	-	Yes	-	Yes	-
IEEE Energy-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Efficient-Ethernet Others								
MTBF (hr)	831,699	560,726	970,594	500,904	1,382,030	1,155,719	616,247	949,326
Heat dissipation (BTU/hr)	68.2	1,483.4	153.3	1,688	41.94	784.30	92.75	1625.55
Physical Specificatio	ons							
Dimensions	441 x 270	440 x 330	441 x 270	440 x 330	250 x 150	330 x 230.5	440 x 131	440 x 330
LUMENSIONS	x 45/ 17.36 x 10.63	x 44.5/ 17.32 x 12.99	x 45/ 17.36 x 10.63	x 44.5/ 17.32 x 12.99	x 44/ 9.84 x 5.91	x 44.5/ 12.99 x 9.07	x 44.5/ 17.32 x 5.16	x 44.5/ 17.32 x 12.99
(WxDxH)(mm/in.)			x 1.77	x 1.75	x 1.72	x 1.75	x 1.75	x 1.75
(WxDxH)(mm/in.)	x 1.77	x 1.75						
	x 1.77 3.7/8.16 • Power cord	x 1.75 5.06/11.16 • Power cord	3.86/8.51 • Power cord	5.38/11.86 • Power cord	1.425/3.14 • Power cord	2.703/5.96 • Power cord	2.26/4.98 • Power cord	4.83/10.63 • Power cord

	Switch 2210 Seri			Switch 1920 Ser				
Model	GS2210-24LP	GS2210-48	GS2210-48HP	XS1920-12	GS1920-24	GS1920-24HP	GS1920-48	GS1920-48HP
Switch class	Layer 2	Layer 2	Layer 2	Smart Managed	Smart Managed	Smart Managed	Smart Managed	Smart Managed
Hardware								
Total port count 100 Mbit	28	50	50	12	28	28	50	50
RJ-45 ports	-	-	-	-	-	-	-	-
100 Mbit RJ-45 PoE ports	-	-	-	-	-	-	-	-
100 Mbit SFP slots	-	-	-	-	-	-	-	-
10 Gigabit RJ-45 ports	-	-	-	10	-	-	-	-
1 Gigabit		44	_	_	24	_	44	_
RJ-45 ports 1 Gigabit RJ-45		-1-1			27			
PoE ports	24	-	48	-	-	24	-	48
1 Gigabit SFP slots 10 Gigabit combo	-	2	2	-	-	-	2	2
ports (RJ-45/SFP+)	-	-	-	2	-	-	-	-
Gigabit combo ports (RJ-45/SFP)	4	4	4	-	4	4	4	4
10 Gigabit CX4 ports	-	-	-	-	-	-	-	-
10 Gigabit module	-	-	-	-	-	-	-	-
10 Gigabit SFP+ slots	-	-	-	-	-	-	-	-
40-Gigabit QSFP+	-	-	-	-	-	-	-	-
Backplane bandwidth (Gbps)	56	100	100	240	56	56	100	100
Forwarding rate	41.7	74	74	178.6	41.7	41.7	74	74
(Mpps) MAC addresses								
table	16 K	16 K	16 K	16 K	16 K	16 K	16 K	16 K
Management IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI/Web GUI	Yes/Yes	Yes/Yes	Yes/Yes	-/Yes	-/Yes	-/Yes	-/Yes	-/Yes
iStacking (single IP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
management) Out-of-band		_		_			_	
management port	-	-	-	-	-	-	-	-
Routing/Redundanc OSPF	у _	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-	-
Static IP routing	-	-	-	Yes	-	-	-	-
VRRP Spanning Tree	-	-	-	-	-	-	-	-
(STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Redundant power support	-	-	-	-	-	-	-	-
Quality of Service	2	2	2	2	2	2	2	2
Priority queues Data prioritization	8	8	8	8	8	8	8	8
(SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN IGMP snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
(v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVR Jumbo frame	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP 802.1p class of	-	-	-	-	-	-	-	-
service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security MAC freeze/	Yes	Yes	Yes	Yes/-	Yes/-	Yes/-	Yes/-	Yes/-
intrusion lock 802.1X								
authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS ACL security filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sflow CPU protection	- Yes	- Yes	- Yes	- Yes	- Yes	- Yes	- Yes	- Yes
Green Features		-		-				-
Fanless	-	-	-	-	Yes	-	-	-
IEEE Energy- Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others	616 0 47	621451	227600	820.625	616 0 47	040.006	621.452	227600
MTBF (hr) Heat dissipation	616,247	631,451	337,690	839,625	616,247	949,326	631,452	337,690
(BTU/hr)	864.09	136.8	1,572.01	320.89	88.32	1,548.14	128.90	1,643.62
Physical Specification	ons 440 x 330	440 x 200	440 x 330	440 x 330	441 x 131	440 x 330	440 x 200	440 x 330
Dimensions (WxDxH)(mm/in.)	x 44.5/ 17.32 x 12.99	x 44.5/ 17.32 x 7.87	x 44.5/ 17.32 x 12.99	x 44.5/ 17.32 x 12.99	x 44/ 17.36 x 5.16	x 44.5/ 17.32 x 12.99	x 44.5/ 17.32 x 7.87	x 44.5/ 17.32 x 12.99
	x 1.75	x 1.75	x 1.75	x 1.75	x 1.73	x 1.75	x 1.75	x 1.75
Weight (kg/lb.)	4.40/9.7 • Power cord	3.04/6.7 • Power cord	5.13/11.3 • Power cord	4.205/9.27 • Power cord	2.17/4.78 • Power cord	4.79/10.56 • Power cord	3.04/6.7 • Power cord	5.13/11.3 • Power cord
Included accessories	• Rack	• Rack	• Rack	• Rack	• Rack	• Rack	• Rack	• Rack
	mounting kit	mounting kit	mounting kit	mounting kit	mounting kit	mounting kit	mounting kit	mounting kit

Model	Switch 1900 Series						
Switch class	GS1900-8 Smart Managed	GS1900-8HP Smart Managed	GS1900-10HP Smart Managed	GS1900-16 Smart Managed	GS1900-24E Smart Managed	GS1900-24 Smart Managed	GS1900-24HP Smart Managed
lardware							
otal port count	8	8	10	16	24	26	26
00 Mbit J-45 ports	-	-	-	-	-	-	-
00 MbitRJ-45	-	-	-	_	-	-	-
oE ports 00 Mbit SFP slots		-	-	-	-	-	-
) Gigabit	_	-	-	-	_	_	_
J-45 ports Gigabit		-					
J-45 ports	8	-	-	16	24	24	-
Gigabit RJ-45 oE ports	-	8	8	-	-	-	24
Gigabit SFP slots	-	-	2	-	-	2	2
) Gigabit							
ombo ports RJ-45/SFP+)	-	-	-	-	-	-	-
igabit combo	-	-	-	-	-	-	-
orts (RJ-45/SFP)) Gigabit							
X4 ports	-	-	-	-	-	-	-
) Gigabit module) Gigabit	-	-	-	-	-	-	-
FP+ slots	-	-	-	-	-	-	-
.	-	-	-	-	-	-	-
ackplane andwidth (Gbps)	16	16	20	32	48	52	52
orwarding rate	11.9	11.9	14.9	23.8	35.7	39	39
Apps) IAC addresses							
able	8 K	8 K	8 K	8 K	8 K	8 K	8 K
lanagement							
v6 management		Yes	Yes	Yes	Yes	Yes	Yes
LI/Web GUI Stacking (single	-/Yes	-/Yes	-/Yes	-/Yes	-/Yes	-/Yes	-/Yes
P management)	-	-	-	-	-	-	-
ut-of-band nanagement port	-	-	-	-	-	-	-
outing/Redundan							
SPF	-	-	-	-	-	-	-
IP v1, v2	-	-	-	-	-	-	-
tatic IP routing	-	-	-	-	-	-	-
RRP panning 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
edundant power upport	-	-	-	-	-	-	-
uality of Service							
riority queues	8	8	8	8	8	8	8
ata prioritization SPQ/WRR/WFQ)	Yes/-/Yes	Yes/-/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
uest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MP snooping	Yes	Yes	Yes	Yes	Yes	Yes	Yes
/1/v2/v3)							
umbo frame	Yes	Yes	Yes	Yes	Yes	Yes	Yes
orwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	-	-	-	-	-	-	-
02.1p class of ervice	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ecurity							
IAC freeze/ ntrusion lock	-	-	-	-	-	-	-
02.1X	Yes	Yes	Yes	Yes	Yes	Voc	Yes
uthentication						Yes	
ACACS+/RADIUS CL security filter	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2/L3/L4	-	-	-	-	-	-	-
flow	-	-	-	-	-	-	-
PU protection	-	-	-	-	-	-	-
reen Features anless	Yes	Yes	Yes	Yes	Yes	Yes	-
EE Energy-							
fficient-Éthernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes
thers	960 E61	026100	801112	942669	904 714	422 672	210142
TBF (hr)	862,561	926,199	801,113	843,668	804,714	432,673	318,142
eat dissipation	21.14	48.763	65.47	35.81	51.49	55	787.71
BTU/hr)							
BTU/hr) hysical Specificat		050 404	050 101	010 (00)	0.07 (00)	4.4.0 101 111	4.40 0.40
BTU/hr) hysical Specificat imensions	t <mark>ions</mark> 250 x 104 x 27/ 9.84 x 4.10 x 1.06	250 x 104 x 27/ 9.84 x 4.10 x 1.06	250 x 104 x 27/ 9.84 x 4.10 x 1.06	216 x 133 x 42/ 8.50 x 5.23 x 1.65	267 x 162 x 42/ 10.51 x 6.37 x 1.65	440 x 131 x 44/ 17.32 x 5.16 x 1.73	440 x 310 x 45/ 17.32 x 12.20 x 1.7
leat dissipation BTU/hr) Physical Specificat Dimensions WxDxH)(mm/in.) Veight (kg/lb.)	250 x 104 x 27/						17.32 x 12.20 x 1.7 4.03/8.88
BTU/hr) Physical Specificat Dimensions WxDxH)(mm/in.)	250 x 104 x 27/ 9.84 x 4.10 x 1.06	9.84 x 4.10 x 1.06 0.71/1.57 • Power cord	9.84 x 4.10 x 1.06	8.50 x 5.23 x 1.65	10.51 x 6.37 x 1.65	17.32 x 5.16 x 1.73	17.32 x 12.20 x 1.7

	Switch 1900 Ser	ies	Switch 1200 Ser	ies	Switch 1100 Serie	es		
Model	GS1900-48	GS1900-48HP	GS1200-5HP	GS1200-8HP	GS1100-8HP	GS1100-10HP	GS1100-16	GS1100-24
Switch class	Smart Managed	Smart Managed	Web Managed	Web Managed	Unmanaged	Unmanaged	Unmanaged	Unmanaged
Hardware								
Total port count	50	50	5	8	8	10	16	26
100 Mbit RJ-45 ports	-	-	-	-	-	-	-	-
00 Mbit RJ-45	_	-	_	_	_	-	_	-
PoE ports				_		_		_
00 Mbit SFP slots 0 Gigabit	-	-	-	-	-	-	-	-
RJ-45 ports	-	-	-	-	-	-	-	-
Gigabit RJ-45 ports	48	24	1	4	4	-	16	24
Gigabit		24	4	4	4	8	-	_
RJ-45 PoE ports	-							
Gigabit SFP slots 0 Gigabit combo	2	2	-	-	-	2	-	2
oorts (RJ-45/SFP+)	-	-	-	-	-	-	-	-
igabit combo orts (RJ-45/SFP)	-	-	-	-	-	-	-	-
0 Gigabit		-	_	_	_	_	-	-
X4 ports	-							
0 Gigabit module 0 Gigabit	-	-	-	-	-	-	-	-
FP+ slots	-	-	-	-	-	-	-	-
0-Gigabit QSFP+	-	-	-	-	-	-	-	-
Backplane Dandwidth (Gbps)	100	100	10	16	16	20	32	52
orwarding rate	74	74	14.88	14.88	11.9	14.9	23.8	38.7
Mpps) MAC addresses								
able	8 K	8 K	4k	4k	8 K	8 K	8 K	8 K
lanagement								
Pv6 management	Yes	Yes	Yes	Yes	-	-	-	-
CLI/Web GUI	-/Yes	-/Yes	-/Yes	-/Yes	-	-	-	-
Stacking (single IP nanagement)	-	-	-	-	-	-	-	-
Out-of-band	-	-	-	-	-	-	-	-
nanagement port Routing/Redundanc	v							
DSPF	-	-	-	-	-	-	-	-
RIP v1, v2	-	-	-	-	-	-	-	-
Static IP routing	-	-	-	-	-	-	-	-
/RRP	-	-	-	-	-	-	-	-
Spanning Tree STP/MSTP/RSTP)	Yes/Yes/Yes	Yes/Yes/Yes	-	-	-	-	-	-
Redundant power	-	-	_	_	_	_	_	_
support Quality of Service								
Priority queues	8	8	4	4	4	8	8	8
Data prioritization	Yes/Yes/Yes	Yes/Yes/Yes	_	_	_	-	-	-
SPQ/WRR/WFQ)				-	-			
Juest VLAN GMP snooping	Yes	Yes	Yes	Yes	-	-	-	-
v1/v2/v3)	Yes	Yes	Yes	Yes	-	-	-	-
AVR	Yes	Yes	-	-	-	-	-	-
lumbo frame orwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	-	-	-	-	-	-	-	-
02.1p class of	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ervice Security								
AC freeze/								
ntrusion lock	-	-	-	-	-	-	-	-
02.1X Iuthentication	Yes	Yes	-	-	-	-	-	-
ACACS+/RADIUS	Yes	Yes	-	-	-	-	-	-
CL security filter 2/L3/L4	-	-	-	-	-	-	-	-
flow	-	-	-	-	-	-	-	-
PU protection	-	-	-	-	-	-	-	-
reen Features								
anless	-	-	-	-	Yes	Yes	Yes	Yes
EEE Energy- Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Others								
/TBF (hr)	229,313	175,767	1,393,888	1,297,717	631,254	1,000,070	1,297,212	1,206,050
leat dissipation BTU/hr)	108.77	853	132.23	128.16	306.9	89	27.62	50.13
Physical Specification								
Dimensions	440 x 200 x 44/	440 x 310 x 45/	193 x 84 x 26/	240 x 105 x 26/	210 x 104 x 27/	250 x 104 x 27/	215 x 133 x 42/	441 x 131 x 44/
WxDxH)(mm/in.)	17.32 x 7.87 x 1.73	17.32 x 12.20 x 1.77		9.44 x 4.13 x 1.02			8.46 x 5.24 x 1.65	
Weight (kg/lb.)	2.9/6.39 • Power cord	4.24/9.35 • Power cord	0.4/0.88 • Power cord	0.65/1.43 • Power cord	0.54/1.19 • Power cord	0.73/1.6 • Power cord	0.92/2.28 • Power cord	1.82/4.01 • Power cord
				1 0401 0010			Wall mount kit	
ncluded accessories	 Rack mounting kit 	 Rack mounting kit 			Power ddupter	• Fower ddupter	Rack mounting	- Raok mound

Model	Switch 1100 Serie	s					Rugged Switch S	eries
Model	GS1100-24E	ES1100-8P	ES1100-16P	ES1100-16	ES1100-24	ES1100-24E	RGS200-12P	RGS100-5P
Switch class	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Unmanaged	Managed	Unmanaged
Hardware	0.1	2	10	10	24	24	10	
Total port count 100 Mbit	24	8	16	16	24	24	12	5
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	24	-	-	-	-	-	-	-
RJ-45 ports 1 Gigabit		_	_	_	_	_	8	4
RJ-45 PoE ports	-	-	-	-	-	-	4	1
1 Gigabit SFP slots 10 Gigabit	-	-	-	-	-	-	4	I
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)	48	1.6	3.2	3.2	4.8	4.8	24	10
Forwarding rate (Mpps)	35.7	1.2	2.4	2.4	3.6	3.6	17.86	7.44
MAC addresses	8 K	1K	8 K	8 K	8 K	8 K	8 K	2 K
table Management								
IPv6 management	-	-	-	-	-	-	Yes	-
CLI/Web GUI	-	-	-	-	-	-	Yes/Yes	-
iStacking (single IP management)	-	-	-	-	-	-	-	-
Out-of-band	_	_	_	_	_	_	_	_
management port Routing/Redundance	ev.							
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 Data prioritization	8	4	8	8	8	8	8	8
(SPQ/WRR/WFQ)	-	-	-	-	-	-	Yes/Yes/-	-
Guest VLAN	-	-	-	-	-	-	Yes	-
IGMP snooping (v1/v2/v3)	-	-	-	-	-	-	Yes	-
MVR	-	-	-	-	-	-	-	-
Jumbo frame forwarding	Yes	-	-	Yes	Yes	Yes	Yes	-
DVMRP	-	-	-	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security								
MAC freeze/ intrusion lock	-	-	-	-	-	-	-	-
802.1X	-	_	_	_	_	_	Yes	_
authentication TACACS+/RADIUS	_	-	-	-	-	-	Yes	-
ACL security filter		-	-	-		-	-	-
L2/L3/L4 Sflow	-		-	-	-	-	-	-
CPU protection	-	-	-	-	-	-	-	-
Green Features								
Fanless	Yes	Yes	-	Yes	Yes	Yes	Yes	Yes
IEEE Energy- Efficient-Ethernet	Yes	Yes	Yes	Yes	Yes	Yes	-	-
Others								
MTBF (hr)	929,704	164,603	75,888	322,400	295,895	100,833	568,430	568,430
Heat dissipation (BTU/hr)	49.10	232.22	499.57	8.53	13.30	13.30	869.55	426.25
Physical Specificat								
Dimensions (WxDxH)(mm/in.)	267 x 162 x 42/ 10.51 x 6.38 x 1.65	262 x 184 x 41/ 10.31 x 7.24 x 1.61	262 x 184 x 41/ 10.31 x 7.24 x 1.61	216 x 133 x 42/ 8.50 x 5.24 x 1.65	441 x 131 x 44/ 17.36 x 5.16 x 1.73	267 x 162 x 42/ 10.51 x 6.38 x 1.65	77 x 127.3 x 154/ 3.03 x 5.01 x 6.06	29.1 x 107.3 x 139 1.15 x 4.22 x 5.47
Weight (kg/lb.)	1.53/3.37	1.4/3.09	1.7/3.75	0.77/1.70	1.35/2.98	1.28/2.82	1.45/3.2	0.5/1.1
In a local and	Power cordWall mount kit	Power cordWall mount kit	 Power cord Wall mount kit 	Power cordWall mount kit	 Power cord Rack 	Power cordWall mount kit	• Wall mount kit	 Wall mount kit
Included							• DIN-rail	• DIN-rail

Key Features

Model	Ports	Key Features					
XS1920-12	10-port 10GBASE-T 2 x 10GbE combo ports	 Upgrades your network to 10GbE connectivity easily and economically Simplified configuration with user-friendly web-based management GUI Flexible 10G connection to 10G servers and network storage through both copper and fiber Zyxel One Network experience enables simple network management and maintenance Dual firmware images and configuration ensure network availability Future-proofed with IPv6 support Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect 					
GS1920-24	24-port 1000BASE-T 4 x GbE combo ports						
GS1920-24HP	24-port 1000BASE-T PoE 4 x GbE combo ports	 GbE RJ-45, GbE combo (RJ-45/SFP) and fixed GbE SFP connectivity PoE models comply with IEEE 802.3at PoE Plus with 375 W power budget 					
GS1920-48	44-port 1000BASE-T 2 x GbE SFP slots 4 x GbE combo ports	 Reliable network availability with Loop Guard, IPSG, and CPU protection RADIUS, static MAC forwarding and 802.1X authentication-enhance network security Streamlined network initialization and troubleshooting by supporting ZON utility and Zyxel Smart Connect 					
GS1920-48HP	48-port 1000BASE-T PoE 2 x GbE SFP slots 4 x GbE combo ports						
GS1900-8	8-port 1000BASE-T						
GS1900-8HP	8-port 1000BASE-T PoE						
GS1900-10HP	8-port 1000BASE-T PoE 2 x GbE SFP slots						
GS1900-16	16-port 1000BASE-T	 Easy browser-based switch management Quick and easy set up wizard 					
GS1900-24E	24-port 1000BASE-T	 Advanced network error prevention features (loop protection, dual images, storm control, DoS and SSL) Fanless design (GS1900-8/8HP/10HP/16/24/24E) 					
GS1900-24	24-port 1000BASE-T 2 x GbE SFP slots	 Green Ethernet IEEE 802.3az support and intelligent Zyxel green features High-power PoE support IEEE 802.3at (GS1900-8HP/10HP/24HP/48HP) Streamlined network initialization by supporting ZON utility 					
GS1900-24HP	24-port 1000BASE-T PoE 2 x GbE SFP slots						
GS1900-48	48-port 1000BASE-T 2 x GbE SFP slots						
GS1900-48HP	24-port 1000BASE-T 24-port 1000BASE-T PoE 2 x GbE SFP slots						
GS1200-5HP	1-port 1000BASE-T 4-port 1000BASE-T PoE	 Four Gigabit high-power PoE+ ports 60 watt total PoE budget Intuitive Web management 					
GS1200-8HP	4-port 1000BASE-T 4-port 1000BASE-T PoE	 Quality of Service for better traffic control Multicast IGMP snooping v1/v2 and v3 compatible for streaming applications Virtual LAN for enhanced network security 					
GS1100-8HP	4-port 1000BASE-T 4-port 1000BASE-T PoE						
GS1100-10HP	8-port 1000BASE-T PoE 2 x GbE SFP slots	 Non-blocking, wire-speed transmission Auto MDI/MDI-X support 					
GS1100-16	16-port 1000BASE-T	 IEEE 802.3az compliant Fanless design for silent operation IEEE 802.3x flow control supported 					
GS1100-24	24-port 1000BASE-T 2 x GbE SFP slots	 IEEE 802.1p CoS supported Jumbo frame support (up to 9 K bytes) 					
GS1100-24E	24-port 1000BASE-T						
ES1100-8P	4-port 10/100BASE-T 4-port 10/100BASE-T PoE						
ES1100-16P	8-port 10/100BASE-T 8-port 10/100BASE-T PoE	Non-blocking, wire-speed transmission Auto MDI/MDI-X support					
ES1100-16	16-port 10/100BASE-T	 Auto MDI/MDI-X support IEEE 802.3az draft Energy Efficient Ethernet compliant (ES1100-16/24/24E) Fanless design for silent operations (ES1100-8P/16/24E/24) 					
ES1100-24E	24-port 10/100BASE-T	 IEEE 802.3x flow control supported IEEE 802.1p CoS supported 					
ES1100-24	24-port 10/100BASE-T						
RGS200-12P	8 x 1000BASE-T 4 x GbE SFP slots	 Wide-ranging operating temperature design from -40°C to 75°C Fanless design and compact mechanism with IP30 standard Redundant ring technology with quick failover in less than 20 ms Dual power inputs (12 V - 58 V DC) Full PoE+ support and high PoE power budget up to 240 W 					
RGS100-5P	4 x 1000BASE-T 1 x GbE SFP slot	 Wide-ranging operating temperature design from -40°C to 75°C Fanless design and compact mechanism with IP30 standard All PoE ports support PoE+ and high PoE power budget up to 120 W Dual power inputs (12 V - 58 V DC) 					

LAN Switches Feature Matrix

Model	Switch 4600 Se	eires	Switch 4500 Series	Switch 3900 Series	00 Switch 3700 Series			
Moder	XGS4600-32	XGS4600-32F	XGS-4528F	XS3900-48F	XS3700-24	XGS3700-24	XGS3700-24HP	XGS3700-48
Switch class	Layer 3	Layer 3	Layer 3	Layer 2	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)	Layer 2 Plus (Layer 3 Lite)
Hardware Total port count	32	32	28	52	24	28	28	52
100 Mbit	-	-	-	-	-	-	-	-
RJ-45 ports 100 Mbit								
RJ-45 PoE ports	-	-	-	-	-	-	-	-
100 Mbit SFP slots 10 Gigabit	-	-	-	-	-	-	-	-
RJ-45 ports 1 Gigabit	-	-	-	-	8	-	-	-
RJ-45 ports	24	-	-	-	-	24	-	48
1 Gigabit RJ-45 PoE ports	-	-	-	-	-	-	24	-
1 Gigabit SFP slots	-	24	-	-	-	-	-	-
10 Gigabit combo ports (RJ-45/SFP+)	-	-	-	-	4	-	-	-
Gigabit combo ports (RJ-45/SFP)	4	4	24	-	-	-	-	-
10 Gigabit	_	_	2	_	_	_	_	_
CX4 ports 10 Gigabit module	-	-	1	-	-	-	-	-
10 Gigabit	4	4	-	48	12	4	4	4
SFP+ slots 40-Gigabit OSFP+	-	-	-	40	-	-	-	-
Backplane	136	136	144	1,280	480	128	128	176
bandwidth (Gbps) Forwarding rate								
(Mpps) MAC addresses table	101.1 32 K	101.1 32 K	107:1 8 K	952.4 128 K	357.14 16 K	95 16 K	95 16 K	131 16 K
table Management								
IPv6 management	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CLI/Web GUI iStacking (single	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes	Yes/Yes
IP management)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Out-of-band management port Routing/Redundancy	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSPF	Yes	Yes	Yes	-	-	-	-	-
RIP v1, v2	Yes	Yes	Yes	-	-	-	-	-
Static IP routing VRRP	Yes	Yes	Yes	-	Yes 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 Quality of Service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Priority queues	8	8	8	8	8	8	8	8
Data prioritization (SPQ/WRR/WFQ)	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Guest VLAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
IGMP snooping (v1/v2/v3)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MVR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Jumbo frame forwarding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DVMRP	Yes	Yes	Yes	-	-	-	-	-
802.1p class of service	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Security								
MAC freeze/ intrusion lock	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
802.1X authentication	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
TACACS+/RADIUS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
ACL security filter L2/L3/L4	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Sflow	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
CPU protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Green Features Fanless	-	-	-	-	-	-	-	-
IEEE Energy- Efficient-Ethernet	Yes	Yes	-	-	Yes	Yes	Yes	Yes
Others MTBF (hr)	860,611	794,270	125,667	156,472	446,035	280,000	220,000	250,000
Heat dissipation	160.27	204.94	289.85	1,024.32	Single PSU: 487.971	Single PSU: 57.8	Single PSU: 534.3	Single PSU: 74.7
(BTU/hr) Physical Specification		207.07	200.00	1,027.02	Dual PSU: 549.01	Dual PSU: 70.3	Dual PSU: 1,098.5	Dual PSU: 87.6
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	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	440 x 437 x 40/ 17.32 x 17.2 x 1.57	440 x 437 x 40/ 17.32 x 17.2 x 1.57
Weight (kg/lb.)	3.96/8.73	4.21/9.28	4.9/10.80	10.2/22.49	7.392/16.3	7.27/16.03	7.55/16.64	7.57/16.69
Included accessories	Power cord Rack mounting kit	 Power cord Rack mounting kit 	 Power cord Console cable Rack mounting kit CX-4 cable 	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

Accessories

10G Module

Product	EM-412	EM-422
Specifications	 2-port CX4 module Extended 10 GbE CX4 module for short distance deployment 	 2-slot XFP module Extended 10 GbE XFP module for long distance deployment (Requires purchase of 10 GbE XFP transceivers)

Media Converter

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

PoE Injector and Extender

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

Power Module

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





Wireless LAN

Wireless LAN Controller Quick Finder

Segment			Model	
Medium- Sized Business to Enterprise	 Centralized WLAN Management User/Application Management 	• Wireless LAN Controller	NXC5500	
Small- to Medium- Sized Business	 Centralized WLAN Management User/Application Management 	• Wireless LAN Controller	NXC2500	

Wireless LAN Access Point Quick Finder

Segment			Model	
		 802.11ac dual radio concurrent 2.4 and 5 GHz support Smart antenna technology 3 spatial streams 	WAC6503D-S	
		 802.11ac dual radio concurrent 2.4 and 5 GHz support Smart antenna technology 2 spatial streams 	WAC6502D-S	Cam
Medium- Sized Business to Enterprise	 Centralized WLAN Management Unified AP: Controller/ Managed AP Standalone AP 	 802.11ac dual radio concurrent 2.4 and 5 GHz support External antenna 2 spatial streams 	WAC6502D-E	
		 802.11ac dual radio concurrent 2.4 and 5 GHz support Outdoor coverage 3 spatial streams 	WAC6553D-E	(an)

- 802.11ac dual radio concurrent
- 2.4 and 5 GHz support
- Dual-optimized antenna
- 3 spatial streams

WAC6103D-I



Segment			Model	
		• Dual radio 2.4 and 5 GHz support • Embedded antenna	NWA5123-AC	an
		• Single radio 2.4 GHz support • External antenna	NWA5121-N	
		• Single radio 2.4 GHz support • Embedded antenna	NWA5121-NI	2-m 1 0
Medium- Sized Business to Enterprise	 Centralized WLAN Management Unified AP: Controller/ Managed AP Standalone AP 	• Dual radio 2.4 and 5 GHz support • Smart antenna	WAC5302D-S	Does
		• Single radio 2.4 GHz support • Embedded antenna	NWA5301-NJ	Part I
		 802.11ac support Dual radio concurrent 2.4 and 5 GHz Dual-optimized antenna GbE interface IPv6 support 	NWA1123-AC PRO	
Small Business	• Web Managed • SNMP Management	 802.11ac support Dual radio concurrent 2.4 and 5 GHz GbE interface IPv6 support 	NWA1123-ACv2	
		 802.11n support Long range AP GbE interface IPv6 support 	NWA1100-NH	

Antenna Series

For Indooors and Outdoors

Model	EXT-108	EXT-109	EXT-114	EXT-118
Product photo	n n H			
Space	Outdoor	Outdoor	Outdoor	Outdoor
Туре	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	0 360°	▼ 65°	<u>▼</u> 30°	<u>I</u> 15°
HPBW/ Vertical	► 15°	▶ 60°	► 30°	—I 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	 Screw kit N-plug adapter Mounting kit Quick installation guide 	 Cable: N-plug, RP-SMA plug; 3 m Mounting plate Quick installation guide 	 Cable: N-plug, RP-SMA plug; 3 m Mounting kit Quick installation guide 	 Cable: N-plug, RP-SMA plug; 3 m Mounting set Quick installation guide

Model	ANT2206		ANT2105		ANT3108	ANT3218
Product photo		5	W			
Space	Indoor		Outdoor		Outdoor	Outdoor
Туре	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°	<u> </u>
HPBW/ Vertical	▶ 75°	▶ 50°	► 30°	► 1 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	4.65	ø22 x 183		ø20 x 260	210 x 210 x 73/ 8.27 x 8.27 x 2.87
Accessory kit	• Screw kit • Quick instal	lation guide	-		• Mounting kit • Quick installation guide	Mounting kitQuick installation guide

Model	ANT1310	ANT1313	ANT1314	ANT1315
Product photo				
Space	Indoor	Outdoor	Outdoor	Outdoor
Туре	Directional, 2x2	Directional, 2x2	Sector, 2x2	Directional, 3x3
Frequency band (MHz)	2300 - 2700	2400 - 2500	2400 - 2500	2400 - 2500
Gain	9 - 10 dBi	13 - 13.5 dBi	14±0.5 dBi	14.5 - 15 dBi
VSWR	1.5:1 Max.	2.0:1 Max.	2.0:1 Max.	2.0:1 Max.
Polarization	Linear/Horizontal	Cross polarization ±45°	Linear, ±45°	Linear, cross polarization
HPBW/ Horizontal	▼ 51°	▼ 33°	▼ 60°	▼ 39° - 48°
HPBW/ Vertical	▶ 66°	► 35°	➡ 13°	► 19° - 20°
Side lobes level	-14 dB Max.	-13 dB Max.	-	-10 dB Max.
Front to back ratio	-13 dB Max.	-25 dB Max.	-25 dB Max.	-19 dB Max.
Connector	SMA jack x 2	N type jack x 2	N type jack x 2	N type jack x 3
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
Weight (g/lb.)	130/0.29	800/1.76	800/1.76	1140/2.51
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
Accessory kit	Mounting kitQuick installation guide			

Model	ANT3315	ANT3316	ANT3320
Product photo			
Space	Outdoor	Outdoor	Outdoor
Space	Sector, 2x2	Directional, 2x2	Directional, 3x3
Frequency band (MHz)	5150 - 5875	5150 - 5875	5150 - 5875
Gain	15±0.5 dBi	15 - 16 dBi	20±1 dBi
VSWR	2.0:1 Max.	2.0:1 Max.	2.0:1 Max.
Polarization	Linear, ±45°	Linear, ±90°	Linear, cross polarization
HPBW/ Horizontal	▼ 60°	<u>↓</u> 19°	<u> </u>
HPBW/ Vertical	- 8°	► 21°	8°
Side lobes level	-5 dB Max.	-	-10 dB Max.
Front to back ratio	-30 dB Max.	-20 dB Max.	-35 dB Max.
Connector	N type jack x 2	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	-40°C to 80°C/ -40°F to 176°F
Weight (g/lb.)	1.4/3.09	800/1.76	2500/5.51
Dimensions (mm/in.)	560 x 120 x 145/ 22.04 x 4.72 x 5.71	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	• Mounting kit • Quick installation guide	• Mounting kit • Quick installation guide	Mounting kitQuick installation guide

Cable Series

Product	LMR 200-N	LMR 400-N	EXT-300
Product Photo	\mathbf{O}	Ó	
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 Arrestor): 0.5 m

Wireless LAN License

Item	Description	For
Managed AP Scalability	The NXC2500 Managed AP License increases the number of APs that can be managed by the NXC2500. The maximum number of APs supported is 64*.	NXC2500
Managea AP Scalability	The NXC5500 Managed AP License increases the number of APs that can be managed by the NXC5500. The maximum number of APs supported is 512.	NXC5500
ZyMesh	This license enables the ZyMesh function on the NXC5500 and NXC2500.	NXC2500 NXC5500

* Management of 64 APs is supported with firmware version V4.10 or above.

Cable Series

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

Transceiver Series

Transssiver Olass	10 Gigabit XFP			10 Gigabit SFP+			
Transceiver Class	XFP-SR		FTLX1412	2D3BCL (XFP-LR)	SFP10G-SR	SFP10G-LR	
		7			WHITE STATE		
Features	 Hot-plugg Compact s Low power 	Multi-Source able with mo size, high po dissipation	e Agreement) aximum flexik rt density		e) features		
Specifications							
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/10	936 yd	0.3 km/328 yd	10 km/10936	i yd
Support DDMI Features	Yes		Yes		Yes	Yes	
Optical Fiber Type	Multiple Mo	de	Single M	ode	Multiple Mode	Single Mode	•
Transceiver Class	Gigabit SFP SFP-1000T	SFP-SX-D	SFP-LX-10-D	SFP-BX1310-10-D	" SFP-BX1490-10-D"	SFP-LHX1310-40-D	SFP-ZX-80-D
	5 r.						
Features		Multi-Source able with mo size, high po	e Agreement) aximum flexib rt density				
Specifications							
Connector	RJ-45	LC	LC	LC	LC	LC	LC
Wavelength	-	850 nm	1310 nm	1310 nm (TX) 1490 nm (RX)	1490 nm (TX) 1310 nm (RX)	1310 nm	1550 nm
Max Transmission Distance	0.1 km/ 109 yd	0.55 km/ 601 yd	10 km/ 10936 yd	10 km/ 10936 yd	10 km/ 10936 yd	40 km/ 43744 yd	80 km/ 87488 yd
Support DDMI Features	-	Yes	Yes	Yes	Yes	Yes	Yes
Optical Fiber Type	Multiple	Multiple	Single	Single	Single	Single	Single

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



Unlock Networking Possibilities with Cloud

Nebula Cloud Networking and Management Solution Solution Brief



Overview

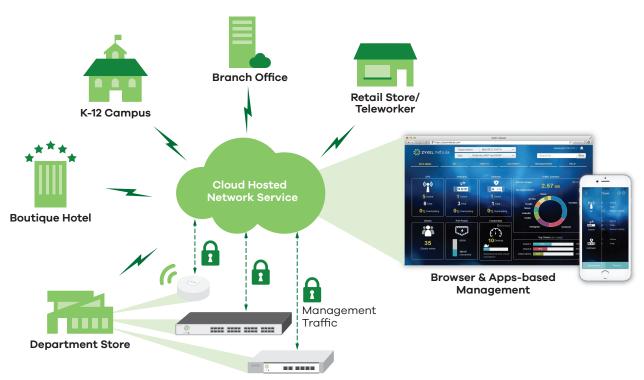
The Nebula cloud networking and management solution provides centralized control and visibility over all Nebula wired and wireless networking hardware — all without the cost and complexity of on-site control equipment

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
- Devices and networks continue forwarding traffics even after licenses expire
- Standard-based, affordable solution to fit even the tightest budget and to maximize ROI



On-premises Nebula Hardware

Introduction to Nebula cloud managed networks

Nebula's networking products, including access points, switches and security gateways, are purpose-built for cloud management. They break the traditions and come up with easy management, centralized control, autoconfiguration, real-time Web-based diagnostics, remote monitoring and more.

The Nebula cloud managed networking introduces an affordable, effortless approach for network deployments with high security and scalability to provide completely control over Nebula devices and users. When an organization grows from small sites to massive, distributed networks, the Nebula hardware with cloudbased self-provisioning enables easy, quick and plugn-play deployment to multiple locations without IT professionals.

Through Nebula cloud services, firmware and security signature updates are delivered seamlessly, while secure VPN tunnels can be established automatically between different branches over the Web with just a few clicks. Based on a secure infrastructure, Nebula is designed with fault-tolerant properties that enable local networks to keep operating properly in WAN downtimes.



Nebula cloud managed networking architecture

The Nebula Cloud provides a networking paradigm for building and managing networks over the Internet in the Software as a Service model. Software as a Service (SaaS) is defined as a way of delivering software for users to access via the Internet rather than local installation. In the Nebula architecture, network functions and management services are pushed to the cloud and delivered as a service that provides instant control to the entire network without wireless controllers and overlay network management appliances.

All Nebula devices are built from the ground up for cloud management with the capability to communicate with

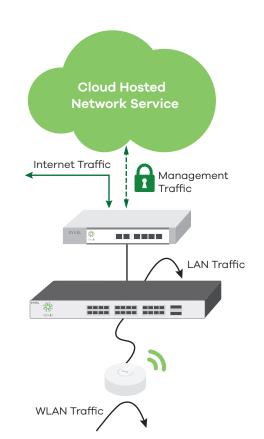
Nebula's cloud control center through the Internet. This TLS-secured connectivity between hardware and the cloud provides network-wide visibility and control for network management using the minimal bandwidth.

Over the cloud, thousands of Nebula devices around the world can be configured, controlled, monitored and managed under a single pane of glass. With multi-site network management tools, businesses are allowed to deploy new branches of any size, while administrators are able to make policy changes any time from a central control platform.

Data Privacy and Out-of-band Control Plane

The Nebula service uses the infrastructure and services built upon the Amazon Web Service (AWS), so all Nebula security details can be referred to AWS Cloud Security. Nebula is committed to data protection, privacy and security as well as compliance with applicable regulatory frameworks in the world. Nebula's technical architecture along with its internal administrative and procedural safeguards can assist customers with design and deployment of cloud-based networking solutions that comply with EU data privacy regulations.

In Nebula's out-of-band control plane, network and management traffics are split into two different data paths. Management data (e.g. configuration, statistics, monitoring, etc.) turn towards Nebula's cloud from devices through an encrypted Internet connection of the NETCONF protocol, while user data (e.g. Web browsing and internal applications, etc.) flows directly to the destination on the LAN or across the WAN without passing through the cloud.



Nebula Control Center (NCC)

Nebula Control Center offers a powerful insight into distributed networks. Its intuitive wed-based interface illustrates an instant view and analysis of network performance, connectivity and status automatically and continuously. Integrated with site-wide management tools, Nebula provides a quick and remote access for administrators to ensure the network is up and performing efficiently.

Nebula Control Center is also engineered with a number of security tools that provide optimal protection to networks, devices and users; and they also deliver the needed information to enforce security and enhance control over the entire Nebula network.



Highlights

- 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
- Rich site-wide management tools
- Configuration changing alerts
- Misconfigure protection against disconnecting NCC
- Configure login auditing
- SSL certificates and idle timeout
- Multi-lingual management interface (English, Traditional Chinese and more to come)

Create administrat	tor		×
Name:			
Email:			
Organization access:	Full 🔺		
Note: Only administrator: sites.	None Full Read-only	cess can edit and/or view configuration template	
		Close Create adm	in

Role-based Administration

Role-based Administration

Supervisors are allowed to appoint different privileges for multiple administrators to manage network and guess access. Specify management authority in the network access control function to maximize security and to avoid accidental misconfiguration.

Real-time Monitoring

Nebula Control center provides 24x7 monitoring over the entire network, giving administrators real-time and historical activity views with unlimited status records that can be backdated to the installation time.

Site-wide Management Tools

Integrated with the feature-rich dashboards, maps, floor plans, automated network topology and site-based configuring tools, the Nebula Control Center delivers instant network analysis and automatically performs AP authentication, configuration parity check, switch ports link aggregation and site-to-site VPN.



Site-wide Management Tools

Misconfiguration Protection

To prevent any connectivity interruption caused by incorrect or inappropriate configuration, the Nebula devices can intelligently identify if the order or setting from NCC is correct to ensure the connection is always up with the Nebula cloud.

Set IP Address		×
IP type Management VLAN ID	DHCP - 1 • Untagged Tagged	(1~4094)
		Close OK

Misconfiguration Protection

Configuration Changing Alerts

Configuration changing alerts help administrators to manage thousands of networking devices more efficiently, especially in larger or distributed sites. These real-time alerts are automatically sent from the Nebula Cloud system when configuration changes are made to keep new policies always up-to-date in the entire IT organization.

Email alerts	
Send alerts via email to	All site admins
Wireless alerts	OFF An AP goes offline for more than 60 - minutes
Switch alerts 3	OFF A switch goes offline for more than 60 - minutes
	OFF Any switch port goes down for more than 60 - minutes
Security gateway alerts	OFF The gateway goes offline for more than 60 - minutes
	OFF The primary uplink status changes
	OFF Any DHCP lease pool is exhausted
	OFF An IP conflict is detected
	OFF Cellular connection state changes
	OFF A warm spare failover occurs
	OFF Monitored clients connect or disconnect from the LAN

Configuration Changing Alerts

Configure Login Auditing

The Nebula cloud control center automatically records the time and IP address of every logged in administrators. The login audit log lets administrators track Web-based login actions on their Nebula networks to see what configuration changes were made and who made the changes.

SSL Certificates

Nebula establishes an encrypted connection between its cloud services and administrators' browsers that allows sensitive and private data to be transmitted securely and confidentially.

Idle Timeout

Under Nebula's cloud architecture, a connection can only stay active in a specific length of time if no traffic is sent through the connection. A notification will be sent before the system logs the user out; once the session expires, users are asked to login again to resume the services.

Product Options

Model	NAP102	NAP203	NAP303	NAP353
	802.11ac Dual-Radio Nebula Cloud	802.11ac Dual-Radio, Dual-Optimized	802.11ac Dual-Radio Smart Antenna	802.11ac Dual-Radio External Antenna 3x3
	Managed Access	Antenna 3x3 Nebula	3x3 Nebula Cloud	Nebula Cloud
	Point	Cloud Managed	Managed Access	Managed Outdoor
		Access Point	Point	Access Point
Product name				
	(mm.) -	apare Ferense	Zyxee References	ZyXEL
Typical	Entry level wireless	Medium to high	High density and	Harsh outdoor
Typical deployment	establishments	density deployments	interference-laden indoor environments	environments
	• 1 x 802.11 b/g/n radio	• 1 x 802.11 b/g/n radio	• 1 x 802.11 b/g/n radio	• 1 x 802.11 b/g/n radio
Radio	 1 x 802.11 a/n/ac radio 1.2 Gbps max rate 	 1 x 802.11 a/n/ac radio 1.75 Gbps max rate 	 1 x 802.11 a/n/ac radio 1.75 Gbps max rate 	 1 x 802.11 a/n/ac radio 1.75 Gbps max rate
specification	• 2x2 MIMO with 2	• 3x3 MIMO with 3	• 3x3 MIMO with 3	• 3x3 MIMO with 3
	streams	streams	streams	streams
_	DC input: 12 VDC, 1 A PoE: 802.3at	802.3at PoE only	DC input: 12 VDC, 2 A PoE: 802.3at	PoE: 802.3at
Power	compliant	(No DC jack)	compliant	compliant
Antenna	Embedded antenna	Dual-optimized	6 embedded	6 N-type connectors*
		internal antenna	Smart Antenna	
Dimensions	130 x 130 x 54.7/	203.9 x 191.7 x 34.7/	236 x 227 x 62/	255 x 256 x 62/
(WxDxH)(mm/in.)	5.12 x 5.12 x 2.17	8.03 x 7.55 x 1.37	9.28 x 8.95 x 2.43	10.04 x 10.08 x 2.44
Weight (g/lb.)	300/0.67	445/0.98	982/2.17	1708/3.77

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

Nebula Cloud Managed Switches

The Zyxel Nebula cloud managed layer-2 switches are ideal for deployment to branch locations. Designed to be managed completely from the Nebula Control Center, the cloud interface of Nebula switches provides site-wide configuration and monitoring of all ports that allow multiple switches to be configured at the same time with a single click.

Highlights

- Layer-2 Gigabit access switching with 8/24-port PoE and non-PoE models
- Support 10GE uplinks to servers for high bandwidth network (NSW200-28P)
- User-friendly ACL and VLAN configuration
- Support DHCP Server Guard and IGMP snooping

The Nebula switches introduce many cloud benefits, such as simplified configuration, easy management, site-wide visibility and real-time control for speedy branch network deployments to networks. Advanced settings such as user friendly ACL, VLAN-based QoS and PoE scheduling significantly improve the efficiency of network management.

- Optimized for quality voice and video traffic with high 375-watt (NSW200-28P, NSW100-28P) / 180-watt (NSW100-10P) power budget PoE technology
- Port Mirroring for network traffic monitoring
- Intelligent PoE technology and network topology
- RADIUS, static MAC forwarding and 802.1X authentication

Model	NSW100-10	NSW100-10P	NSW100-28	NSW100-28P	NSW200-28P
Product name	8-port GbE Nebula Cloud Managed Switch	8-port GbE Nebula Cloud Managed PoE Switch	24-port GbE Nebula Cloud Managed Switch	24-port GbE Nebula Cloud Managed PoE Switch	24-port GbE Nebula Cloud Managed PoE Switch with 10GbE Uplink
Switch class	Layer 2	Layer 2	Layer 2	Layer 2	Layer 2
Total port count	10	10	28	28	28
100/1000 Mbps	8	-	24	-	-
100/1000 Mbps PoE	-	8	-	24	24
10 Gigabit SFP+	-	-	-	-	4
Gigabit combo (SFP/RJ-45)	2	2	4	4	-
Switching capacity (Gbps)	20	20	56	56	128
Total PoE power budget (watts)	-	180	-	375	375

Product Options

Nebula Cloud Managed Security Gateways

The Nebula Cloud Managed Security Gateways are built with remote management and ironclad security for organizations with growing numbers of distributed sites. With the comprehensive Next-Gen Firewall features with IDP and Application Patrol technology, Nebula security gateways provide deep, extensive protection to meet everything that small- to mid-size businesses would need.

Highlights

- Complete networking, security and application control over the cloud
- Zero-touch site-to-site VPN
- Secure networks with Next-Gen Firewall, IDP and Application Patrol*

- As the Zyxel Nebula Security Gateway has been completely designed for cloud management, it can automatically pull configuration settings from the cloud, self-configure site-to-site VPN, receive seamless firmware and security signature updates over the Web. Through Nebula's cloud interface, administrators are able to create site-wide policies and monitor all the branch sites effortlessly.
- Built-in DHCP, NAT, QoS and VLAN management
- Static route and dynamic DNS support
- Identity-based security policies and application management
- Support Nebula cloud authentication
- * Every NSG100 is pre-bundled with one year IDP and Application Patrol service

Product Options

Model	NSG50	NSG100		
	Nebula Cloud Managed Security Gateway	Nebula Cloud Managed Security Gateway		
Product name				
Firewall throughput	300 Mbps	650 Mbps		
VPN throughput	70 Mbps	140 Mbps		
IDP throughput (IDP)	120 Mbps	180 Mbps		
Max. TCP concurrent sessions	20,000	40,000		
Multi-WAN	Yes	Yes		