

# ZYXEL

Your Networking Ally



# Security

Quick Sales Guide

# Zyxel security solutions

## Network security that works

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

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

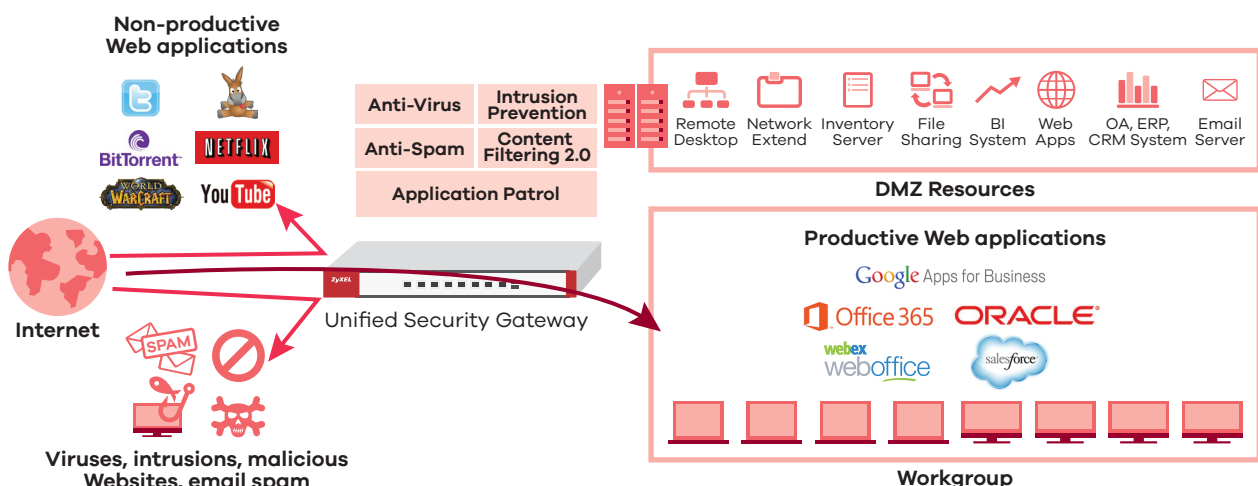
## Next Generation USG Series

### Next Generation Security and Application Intelligence

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

### Next Generation Firewall

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



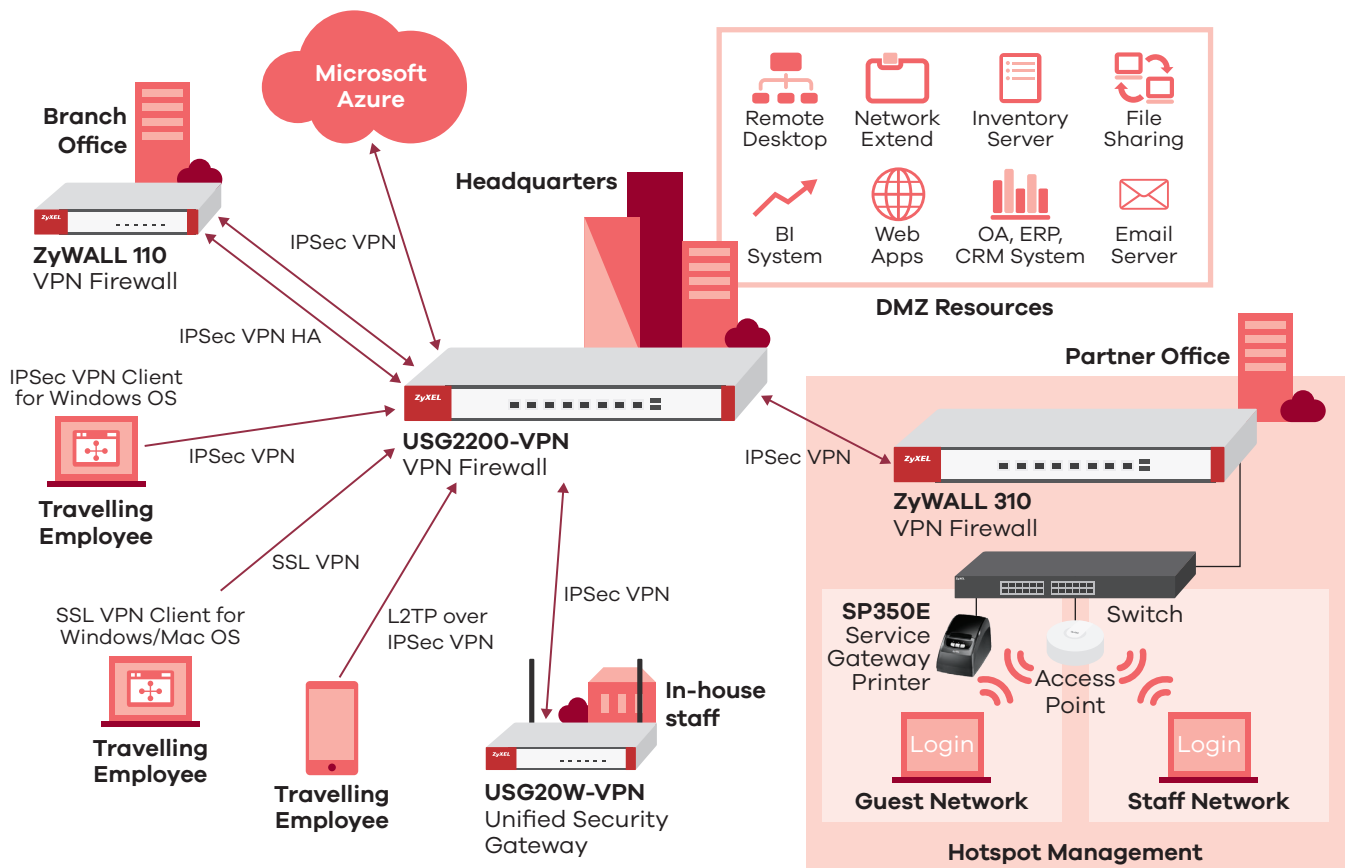
# VPN Firewall Series

## Fine-tuned for Ultra-fast VPN Performance







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

## Zero-configuration Remote Access



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



# Device Quick Finder/Key Features

Product Category	Business Scale	Model	
<b>Next Generation Unified Security Gateway—Extreme Series</b>	Ultra-high performance Next Generation Firewall (NGFW) for medium to large businesses	USG1900 USG1100	
<b>Next Generation Unified Security Gateway—Advanced Series</b>	Mid-range Next Generation Firewall (NGFW) for small and medium-sized businesses	USG310 USG210 USG110	
<b>Next Generation Unified Security Gateway—Performance Series</b>	Desktop Next Generation Firewall (NGFW) for small businesses	USG60W USG60 USG40W USG40	
<b>VPN Firewall</b>	Reliable remote access solution for Medium-sized businesses	USG2200-VPN	
<b>VPN Firewall</b>	Reliable remote access solution for small- and medium-sized businesses	ZyWALL 1100 ZyWALL 310 ZyWALL 110	
<b>VPN Firewall</b>	Reliable remote access solution for small businesses & branch offices	USG20-VPN USG20W-VPN	








# Service Quick Finder/Key Features

Category	Service Portal	Service Name	
<b>Online Service Platform</b>	<a href="https://portal.myzyxel.com/">https://portal.myzyxel.com/</a>	myZyxel	
<b>Security Information Website</b>	<a href="http://onesecurity.zyxel.com/">http://onesecurity.zyxel.com/</a>	OneSecurity	 OneSecurity.com

Product Category	Model	Key Features
<b>Next Generation Unified Security Gateway—Extreme Series</b>	USG1900 USG1100	<ul style="list-style-type: none"> <li>Multi-threat protection with firewall, Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, Application Patrol, and SSL inspection</li> <li>Enhanced manageability with unified security policy and Single Sign-On (SSO) support</li> <li>Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN High Availability (HA)</li> <li>Hotspot Management and built-in WLAN controller for centralized AP management and effortless WLAN scalability</li> </ul>
<b>Next Generation Unified Security Gateway—Advanced Series</b>	USG310 USG210 USG110	<ul style="list-style-type: none"> <li>Multi-threat protection with firewall, Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, Application Patrol, and SSL inspection</li> <li>Comprehensive 3G/LTE USB dongle compatibility and multi-WAN load balancing, failover and fall back support</li> <li>Built-in WLAN controller for centralized AP management and effortless WLAN scalability</li> <li>Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN High Availability (HA)</li> </ul>
<b>Next Generation Unified Security Gateway—Performance Series</b>	USG60W USG60 USG40W USG40	<ul style="list-style-type: none"> <li>Multi-threat protection with firewall, Anti-Virus, Anti-Spam, Content Filtering 2.0, IDP, and Application Patrol</li> <li>Integrated single-radio (USG40W) or dual-radio (USG60W) wireless access point</li> <li>Robust SSL, IPSec and L2TP over IPSec VPN connectivity</li> <li>Built-in WLAN controller for centralized AP management and effortless WLAN scalability</li> </ul>
<b>VPN Firewall</b>	USG2200-VPN	<ul style="list-style-type: none"> <li>Up to 12.0 Gbps firewall throughput</li> <li>Over 3,000 VPN tunnels capability</li> <li>10G/GbE combo ports for higher throughput</li> <li>Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN High Availability (HA)</li> <li>More secure VPN connections with SHA-2 cryptographic</li> <li>Easy maintenance of redundant power &amp; system FAN</li> </ul>
<b>VPN Firewall</b>	ZyWALL 1100 ZyWALL 310 ZyWALL 110	<ul style="list-style-type: none"> <li>Multi-core CPUs deliver up to 6 Gbps firewall throughput and 800 Mbps VPN throughput</li> <li>Up to 15x faster firewall performance and 4.4x faster VPN performance than preceding models</li> <li>More secure VPN connections with SHA-2 cryptographic</li> <li>VPN High Availability (HA) with dual-WAN failover and fallback support</li> <li>L2TP/IPSec support for iOS, Android and Windows mobile devices</li> <li>Auto-provisioned client-to-site IPSec setup with Easy VPN</li> </ul>
<b>VPN Firewall</b>	USG20-VPN USG20W-VPN	<ul style="list-style-type: none"> <li>Robust hybrid VPN (IPSec/SSL/L2TP)</li> <li>Superior wireless performance and signal quality with 802.11ac (2.4G/5G) Wi-Fi support</li> <li>High-performance SPI Firewall</li> <li>Bandwidth management</li> <li>Dual-WAN (SFP and Eth WAN) load balancing and failover for robust connection</li> </ul>

Service Category	Service Name	Introduction
<b>Online Service Platform</b>	myZyxel	myZyxel is the license and service lifecycle management portal for Zyxel's business customers. Built on a cloud-based infrastructure, it delivers stable and efficient services to our customers all over the world. myZyxel offers an array of enhancements that enable our channel partners to develop their businesses and support their end customers.
<b>Security Information Website</b>	OneSecurity	Zyxel OneSecurity.com provides a new resource of complimentary network security information and know-hows for small- to medium-sized businesses (SMBs) and IT departments to protect their networks and operations from security risks of the digital age.

# 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	<ul style="list-style-type: none"> <li>• SSL VPN: USG series and ZyWALL series with firmware version ZLD V4.10 or above</li> <li>• IPSec VPN: All models in the USG Series and all models in the ZyWALL Series</li> </ul>	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	<ul style="list-style-type: none"> <li>• Integrate Kaspersky's leading technology SafeStream II gateway Anti-Virus</li> <li>• Anti-malware including viruses, Trojans, worms, spyware and rogue ware</li> <li>• Fast stream-based scanning provides real time protection with no file size limitation</li> <li>• High detection rate without sacrificing performance</li> <li>• Cloud-optimized database supported</li> </ul>
Security Service	Anti-Spam	<ul style="list-style-type: none"> <li>• Transparent mail interception via SMTP and POP3 protocols</li> <li>• Zero-hour virus outbreak protection</li> <li>• Sender-based IP reputation filter</li> <li>• Blacklist and whitelist support</li> </ul>
Security Service	Content Filtering 2.0	<ul style="list-style-type: none"> <li>• Dynamic, cloud-based URL filtering database</li> <li>• Bandwidth regulation by filtering</li> <li>• SafeSearch support for social networking content constraints</li> <li>• IPv6 GeolP Blocking covers management of billions of IOT and mobile devices</li> <li>• GeolP maps and tracks IP addresses from the cloud into real geographical locations</li> </ul>
Security Service	Intrusion Detection and Prevention (IDP)	<ul style="list-style-type: none"> <li>• Routing and transparent (bridge) mode</li> <li>• Detects and alerts you of suspicious or malicious activity</li> <li>• Customizable protection profile</li> <li>• Customized signatures supported</li> </ul>
Security Service	Application Patrol	<ul style="list-style-type: none"> <li>• Granular control over the most important applications</li> <li>• Identifies and controls application behavior</li> <li>• Application bandwidth management</li> <li>• Supports user authentication</li> <li>• Real-time statistics and reports</li> </ul>
Connectivity Service	SecuExtender Software	<ul style="list-style-type: none"> <li>• Providing solutions of both SSL VPN and IPSec VPN remote access</li> <li>• Enhanced layered security incorporating Zyxel security appliances</li> <li>• Easy and intelligent installation reducing IT effort</li> </ul>
Connectivity Service	AP Controller	<ul style="list-style-type: none"> <li>• Integrated AP controller as central management to provide flexible deployment options</li> <li>• AP auto discovery and auto provisioning</li> </ul>
Connectivity Service	Device High Availability Pro	<ul style="list-style-type: none"> <li>• Device failure detection and notification</li> <li>• Supports ICMP and TCP ping check</li> <li>• Configuration auto-sync and link monitoring</li> <li>• Smart handover through dedicated Heartbeat Link</li> <li>• NAT/Firewall/VPN Sessions synchronization</li> </ul>
Connectivity Service	SSO Agent	<ul style="list-style-type: none"> <li>• Simplified single sign in to multiple resources</li> <li>• Improved user experience without repetitive logging in various web browsers</li> <li>• Secure communication via shared key encryption for data transmission protection</li> <li>• Login mechanism works with any protocol, not just HTTP</li> </ul>
Vertical Solution Service	Hotspot Management	<ul style="list-style-type: none"> <li>• High speed Internet access</li> <li>• Tier of service</li> <li>• Log record for regulatory compliance</li> <li>• Premium security control</li> <li>• Various Network access control</li> </ul>
Security Appliance Management	Cloud CNM SecuManager	<ul style="list-style-type: none"> <li>• Perform management and backup configuration from a centralized center</li> <li>• Apply manual or scheduled firmware upgrades to all managed gateways</li> <li>• VPN provisioning with different scenarios</li> <li>• Centralized display and management of event/alarm notifications</li> <li>• Manage a wide set of system restore/backup and monitoring</li> </ul>
Security Analytics Service	Cloud CNM SecuReporter	<ul style="list-style-type: none"> <li>• Cloud-based real-time monitoring and alerts</li> <li>• Effective event correlation and user behavior analytics</li> <li>• Intuitive dashboard and customizable report</li> </ul> <p>* Available in Q3, 2017</p>

# Security Feature Matrix

## Next Generation Unified Security Gateway

Model	Extreme Series		Advanced Series		
	USG1900	USG1100	USG310	USG210	USG110
<b>Hardware Specifications</b>					
10/100/1000 Mbps RJ-45 ports	8 (configurable)	8 (configurable)	8 (configurable)	4 x LAN/DMZ, 2 x WAN, 1 x OPT	4 x LAN/DMZ, 2 x WAN, 1 x OPT
USB ports	2	2	2	2	2
Console port	Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (DB9)
Rack-mountable	Yes	Yes	Yes	Yes	Yes
Fanless	-	-	-	-	-
<b>System Capacity &amp; Performance<sup>*1</sup></b>					
SPI firewall throughput (Mbps) <sup>*2</sup>	7,000	6,000	5,000	1,900	1,600
VPN throughput (Mbps) <sup>*3</sup>	900	800	650	500	400
IDP throughput (Mbps) <sup>*4</sup>	650	550	450	350	300
AV throughput (Mbps) <sup>*4</sup>	600	500	400	300	250
UTM throughput (AV and IDP) <sup>*4</sup>	600	500	400	300	250
Concurrent devices (default/max.) <sup>*5</sup>	1,500/2,000	800/1,500	500/800	200/300	200/300
Max. TCP concurrent sessions <sup>*6</sup>	500,000	500,000	200,000	80,000	60,000
Max. concurrent IPsec VPN tunnels <sup>*7</sup>	2,000	1,000	300	200	100
Concurrent SSL VPN users (default/max.) <sup>*8</sup>	250/750	250/500	50/150	35/150	25/150
Customizable zones	Yes	Yes	Yes	Yes	Yes
IPv6 support	Yes	Yes	Yes	Yes	Yes
VLAN interface	128	128	64	32	16
<b>WLAN Management</b>					
AP Controller (APC) support	Yes	Yes	Yes	Yes	Yes
Managed AP number (default/max.) <sup>*9</sup>	2/66	2/66	2/34	2/34	2/34
<b>Key Software Features</b>					
Firewall	Yes	Yes	Yes	Yes	Yes
Virtual Private Network (VPN)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)
Bandwidth management	Yes	Yes	Yes	Yes	Yes
Logging and monitoring	Yes	Yes	Yes	Yes	Yes
SSL (HTTPS) inspection	Yes	Yes	Yes	Yes	Yes
Unified security policy	Yes	Yes	Yes	Yes	Yes
EZ mode	-	-	-	-	-
Cloud Helper	Yes	Yes	Yes	Yes	Yes
Device HA	Yes	Yes	Yes	Yes	Yes
<b>License Service</b>					
Anti-Virus (AV)	Yes	Yes	Yes	Yes	Yes
Intrusion Detection and Prevention (IDP) & Application Patrol	Yes	Yes	Yes	Yes	Yes
Anti-Spam	Yes	Yes	Yes	Yes	Yes
Content Filtering (CF2.0) <sup>*10</sup>	Yes	Yes	Yes	Yes	Yes
Device HA Pro	Yes	Yes	Yes	Yes	Yes
Hostpot Management	Yes	Yes	Yes	Yes	Yes
<b>Power Requirements</b>					
Power input	100 - 240 V AC, 50/60 Hz, 1.3 A max.	100 - 240 V AC, 50/60 Hz, 1.3 A max.	100 - 240 V AC, 50/60 Hz, 1.3 A max.	12 V DC, 3.33 A max.	12 V DC, 3.33 A max.
Max. power consumption (watt)	58.5	58.5	58.5	37.0	37.0
Heat dissipation (BTU/hr)	199.61	199.61	199.61	126.25	126.25
<b>Physical Specifications</b>					
Item	Dimensions (WxDxH)(mm/in.)	430 x 250 x 44/ 16.93 x 9.84 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73	430 x 250 x 44/ 16.93 x 9.84 x 1.73	300 x 178 x 44/ 11.81 x 7 x 1.73
	Weight (kg/lb.)	3.3/7.28	3.3/7.28	3.3/7.28	2/4.4
Packing	Dimensions (WxDxH)(mm/in.)	519 x 392 x 163/ 20.43 x 15.43 x 6.42	519 x 392 x 163/ 20.43 x 15.43 x 6.42	519 x 392 x 163/ 20.43 x 15.43 x 6.42	351 x 149 x 243/ 13.82 x 5.87 x 9.57
	Weight (kg/lb.)	4.8/10.58	4.84/10.58	4.8/10.58	3.264/7.20
Included accessories		• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power adapter • Power cord • Rack mounting kit
<b>Environmental Specifications</b>					
Operating environment	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
	Humidity	10% to 90% (non-condensing)	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	-30°C to 70°C/ -22°F to 158°F	-30°C to 70°C/ -22°F to 158°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hr)		560,811.5	560,811.5	560,811.5	787,109.3
<b>Certifications</b>					
EMC		FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI
Safety		LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI

\*: 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: 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.



## Next Generation Unified Security Gateway

Model	Performance Series			
	USG60W	USG60	USG40W	USG40
<b>Hardware Specifications</b>				
10/100/1000 Mbps RJ-45 ports	4 x LAN/DMZ, 2 x WAN	4 x LAN/DMZ, 2 x WAN	3 x LAN/DMZ, 1 x WAN, 1 x OPT	3 x LAN/DMZ, 1 x WAN, 1 x OPT
USB ports	2	2	1	1
Console port	Yes (DB9)	Yes (DB9)	Yes (RJ-45)	Yes (RJ-45)
Rack-mountable	Yes	Yes	-	-
Fanless	Yes	Yes	Yes	Yes
<b>System Capacity &amp; Performance<sup>*1</sup></b>				
SPI firewall throughput (Mbps) <sup>*2</sup>	1,000	1,000	400	400
VPN throughput (Mbps) <sup>*3</sup>	180	180	100	100
IDP throughput (Mbps) <sup>*4</sup>	120	120	55	55
AV throughput (Mbps) <sup>*4</sup>	90	90	50	50
UTM throughput (AV and IDP) <sup>*4</sup>	90	90	50	50
Concurrent devices (default/max.) <sup>*5</sup>	128	128	64	64
Max. TCP concurrent sessions <sup>*6</sup>	40,000	40,000	20,000	20,000
Max. concurrent IPsec VPN tunnels <sup>*7</sup>	40	40	20	20
Concurrent SSL VPN users (default/max.) <sup>*8</sup>	5/20	5/20	5/15	5/15
Customizable zones	Yes	Yes	Yes	Yes
IPv6 support	Yes	Yes	Yes	Yes
VLAN interface	16	16	8	8
<b>WLAN Management</b>				
AP Controller (APC) support	Yes	Yes	Yes	Yes
Managed AP number (default/max.) <sup>*9</sup>	2/18	2/18	2/18	2/18
<b>Key Software Features</b>				
Firewall	Yes	Yes	Yes	Yes
Virtual Private Network (VPN)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)	Yes (IPSec, SSL, L2TP over IPSec)
Bandwidth management	Yes	Yes	Yes	Yes
Logging and monitoring	Yes	Yes	Yes	Yes
SSL (HTTPS) inspection	-	-	-	-
Unified security policy	Yes	Yes	Yes	Yes
EZ mode	Yes	Yes	Yes	Yes
Cloud Helper	Yes	Yes	Yes	Yes
Device HA	-	-	-	-
<b>License Service</b>				
Anti-Virus (AV)	Yes	Yes	Yes	Yes
Intrusion Detection and Prevention (IDP) & Application Patrol	Yes	Yes	Yes	Yes
Anti-Spam	Yes	Yes	Yes	Yes
Content Filtering (CF2.0) <sup>*10</sup>	Yes	Yes	Yes	Yes
Device HA Pro	-	-	-	-
Hostpot Management	-	-	-	-
<b>Power Requirements</b>				
Power input	12 V DC, 3.0 A max.	12 V DC, 3.0 A max.	12 V DC, 2.0 A max.	12 V DC, 2.0 A max.
Max. power consumption (watt)	28.0	19.0	17.0	14.0
Heat dissipation (BTU/hr)	95.54	64.83	58.01	47.77
<b>Physical Specifications</b>				
Item	Dimensions (WxDxH)(mm/in.)	272 x 187 x 36/ 10.71 x 7.36 x 1.42	242 x 176 x 36/ 9.53 x 6.93 x 1.42	216 x 143 x 33/ 8.50 x 5.63 x 1.30
	Weight (kg/lb.)	1.46/3.23	1.25/2.76	0.91/2
Packing	Dimensions (WxDxH)(mm/in.)	427 x 247 x 73/ 16.81 x 9.72 x 2.87	394 x 240 x 101/ 15.51 x 9.45 x 3.98	381 x 216 x 79/ 15.00 x 8.50 x 3.11
	Weight (kg/lb.)	2.23 (W/O bracket) 2.42 (w bracket)	2.25/4.96	1.63/3.59
Included accessories	• 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
<b>Environmental Specifications</b>				
Operating environment	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
	Humidity	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	-30°C to 70°C/-22°F to 158°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hr)		497,644	815,463.9	386,931.7
<b>Certifications</b>				
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	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	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI

\*: This matrix with firmware ZLD 4.25 or later.

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\*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.

## VPN Firewall

Model	Medium-sized Businesses (MBs)	Small- and Medium-sized Businesses (SMBs)		Remote Offices/ Small Businesses (SBs)
	USG2200-VPN	ZyWALL 1100	ZyWALL 310	ZyWALL 110
<b>Hardware Specifications</b>				
10/100/1000 Mbps RJ-45 ports	12 (configurable), 4x SFP (configurable), 2 x 10G Combo	8 (configurable)	8 (configurable)	2 x WAN, 1 x OPT, 4 x LAN/DMZ
USB ports	2	2	2	2
Console port	Yes (DB9)	Yes (DB9)	Yes (DB9)	Yes (DB9)
Rack-mountable	Yes	Yes	Yes	Yes
Fanless	-	-	-	-
<b>System Capacity &amp; Performance<sup>*1</sup></b>				
SPI firewall throughput (Mbps) <sup>*2</sup>	12,000	6,000	5,000	1,600
VPN throughput (Mbps) <sup>*3</sup>	1,800	800	650	400
Concurrent devices (default/max.) <sup>*4</sup>	2,000/5,000	800/1,500	500/800	200/300
Max. TCP concurrent sessions <sup>*5</sup>	1,500,000	500,000	200,000	60,000
Max. concurrent IPsec VPN tunnels <sup>*6</sup>	3,000	1,000	300	100
Concurrent SSL VPN users (default/max.) <sup>*7</sup>	250/1000	250/500	50/150	25/150
Customizable zones	Yes	Yes	Yes	Yes
IPv6 support	Yes	Yes	Yes	Yes
VLAN interface	128	128	64	16
<b>WLAN Management</b>				
AP Controller (APC) support	Yes	Yes	Yes	Yes
Managed AP number (default/max.) <sup>*8</sup>	2/258	2/66	2/34	2/34
<b>Key Software Features</b>				
Firewall	Yes	Yes	Yes	Yes
Virtual Private Network (VPN)	Yes (IPsec, SSL, L2TP over IPsec)	Yes (IPsec, SSL, L2TP over IPsec)	Yes (IPsec, SSL, L2TP over IPsec)	Yes (IPsec, SSL, L2TP over IPsec)
Bandwidth management	Yes	Yes	Yes	Yes
Logging and monitoring	Yes	Yes	Yes	Yes
SSL (HTTPS) inspection	Yes	Yes	Yes	Yes
Unified security policy	Yes (while supporting Content Filtering 2.0 & Anti-Spam)	Yes	Yes	Yes
EZ mode	-	-	-	-
Cloud Helper	Yes	Yes	Yes	Yes
Device HA	Yes	Yes	Yes	Yes
<b>License Service</b>				
Anti-Virus (AV)	-	Yes	Yes	Yes
Intrusion Detection and Prevention (IDP) & Application Patrol	-	Yes	Yes	Yes
Anti-Spam	Yes	Yes	Yes	Yes
Content Filtering (CF2.0) <sup>*9</sup>	Yes	Yes	Yes	Yes
Device HA Pro	Yes	Yes	Yes	Yes
Hospot Management	Yes	Yes	Yes	Yes
<b>Power Requirements</b>				
Power input	2 x AC-DC redundant power supply 110 - 240 V AC, 50/60Hz, 2.5 A	100 - 240 V AC, 50/60 Hz, 1.3 A max.	100 - 240 V AC, 50/60 Hz, 1.3 A max.	12 V DC, 3.33 A max.
Max. power consumption (watt)	400 (200 x 2)	58.5	58.5	37
Heat dissipation (BTU/hr)	406.045	199.61	199.61	126.25
<b>Physical Specifications</b>				
Item	Dimensions (WxDxH)(mm/in.)	438.5 x 500 x 89/ 17.26 x 19.69 x 3.50	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
	Weight (kg/lb.)	12.45/27.45	3.3/7.28	3.3/7.28
Packing	Dimensions (WxDxH)(mm/in.)	795 x 600 x 215/ 31.30 x 23.62 x 8.46	519 x 392 x 163/ 20.43 x 15.43 x 6.42	519 x 392 x 163/ 20.43 x 15.43 x 6.42
	Weight (kg/lb.)	18.12 (with DUT)/39.95	4.74/10.45	4.74/10.45
Included accessories		• Power cord x 2 • Rack mounting (slide) kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit
<b>Environmental Specifications</b>				
Operating environment	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
	Humidity	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	-30°C to 70°C/-22°F to 158°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hr)		290,490	560,811.5	560,811.5
<b>Certifications</b>				
EMC		FCC Part 15 (Class A), IC, CE EMC (Class A), RCM, BSMI	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI
Safety		LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI

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.

\*9: SafeSearch function in CF2.0 need to enable SSL Inspection firstly and not for small business models.

## VPN Firewall

Model	Remote Offices/Small Businesses (SBs)	
	USG20-VPN	USG20W-VPN
<b>Hardware Specifications</b>		
10/100/1000 Mbps RJ-45 ports	1 x WAN, 1 x SFP, 4 x LAN/DMZ	1 x WAN, 1 x SFP, 4 x LAN/DMZ
USB ports	1	1
Console port	Yes (RJ-45)	Yes (RJ-45)
Rack-mountable	-	-
Fanless	-	-
<b>System Capacity &amp; Performance<sup>*1</sup></b>		
SPI firewall throughput (Mbps) <sup>*2</sup>	350	350
VPN throughput (Mbps) <sup>*3</sup>	90	90
Concurrent devices (default/max.) <sup>*4</sup>	64	64
Max. TCP concurrent sessions <sup>*5</sup>	20,000	20,000
Max. concurrent IPsec VPN tunnels <sup>*6</sup>	10	10
Concurrent SSL VPN users (default/max.) <sup>*7</sup>	5/15	5/15
Customizable zones	Yes	Yes
IPv6 support	Yes	Yes
<b>WLAN Management</b>		
AP Controller (APC) support	-	-
Managed AP number (default/max.) <sup>*8</sup>	-	-
<b>Key Software Features</b>		
Firewall	Yes	Yes
Virtual Private Network (VPN)	Yes (IPsec, SSL, L2TP over IPsec)	Yes (IPsec, SSL, L2TP over IPsec)
Bandwidth management	Yes	Yes
Logging and monitoring	Yes	Yes
SSL (HTTPS) inspection	-	-
Unified security policy	Yes	Yes
EZ mode	Yes	Yes
Cloud Helper	Yes	Yes
Device HA	-	-
<b>License Service</b>		
Anti-Virus (AV)	-	-
Intrusion Detection and Prevention (IDP) & Application Patrol	-	-
Anti-Spam	Yes	Yes
Content Filtering (CF2.0) <sup>*9</sup>	Yes	Yes
Device HA Pro	-	-
Hospot Management	-	-
<b>Power Requirements</b>		
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
<b>Physical Specifications</b>		
Item	Dimensions (WxDxH)(mm/in.)	216 x 143 x 33/8.50 x 5.63 x 1.30
	Weight (kg/lb.)	1.04/2.29
Packing	Dimensions (WxDxH)(mm/in.)	276 x 185 x 98/10.87 x 7.28 x 3.86
	Weight (kg/lb.)	1.41/3.11
Included accessories	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• RJ-45 - RS-232 cable for console connection</li> </ul>	<ul style="list-style-type: none"> <li>• Power adapter</li> <li>• RJ-45 - RS-232 cable for console connection</li> <li>• Antenna</li> </ul>
<b>Environmental Specifications</b>		
Operating environment	Temperature	0°C to 40°C/32°F to 104°F
	Humidity	10% to 90% (non-condensing)
Storage environment	Temperature	-30°C to 70°C/-22°F to 158°F
	Humidity	10% to 90% (non-condensing)
MTBF (hr)	44,000	44,000
<b>Certifications</b>		
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.

\*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.

\*9: SafeSearch function in CF2.0 need to enable SSL Inspection firstly and not for small business models.

## Wireless Specifications

Model	Next Generation Unified Security Gateway		VPN Firewall
	USG60W	USG40W	USG20W-VPN
Standard compliance	802.11 a/b/g/n	802.11 b/g/n	802.11 a/b/g/n/ac
Wireless frequency	Concurrent 2.4 & 5 GHz	2.4 GHz	2.4 GHz/5 GHz
Radio	2	1	1
SSID number	16	8	8
Maximum transmit power (Max. total channel)	<ul style="list-style-type: none"> <li>US (FCC) 2.4 GHz: 24.3 dBm, 2 antennas</li> <li>US (FCC) 5 GHz: 25.8 dBm, 2 antennas</li> <li>EU (ETSI) 2.4 GHz: 18.6 dBm (EIRP), 2 antennas</li> <li>EU (ETSI) 5 GHz: 28.4 dBm (EIRP), 2 antennas</li> </ul>	<ul style="list-style-type: none"> <li>US (FCC) 2.4 GHz: 24.3 dBm, 2 antennas</li> <li>EU (ETSI) 2.4 GHz: 19.6 dBm (EIRP), 2 antennas</li> </ul>	<ul style="list-style-type: none"> <li>US (FCC) 2.4 GHz: 25 dBm, 3 antennas</li> <li>US (FCC) 5 GHz: 25 dBm, 3 antennas</li> <li>EU (ETSI) 2.4 GHz: 20 dBm (EIRP), 3 antennas</li> <li>EU (ETSI) 5 GHz: 20 dBm (EIRP), 3 antennas</li> </ul>
No. of antenna	2.4 GHz: 2T2R MIMO 5 GHz: 2T2R MIMO (Detachable, SMA-R)	2.4 GHz: 2T2R MIMO (Detachable, SMA-R)	3 detachable antennas
Antenna gain	3 dBi	3 dBi	2 dBi @2.4 GHz 3 dBi @5 GHz
Data rate	<ul style="list-style-type: none"> <li>802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps</li> <li>802.11a: 6, 9, 12, 18, 24, 36, 48 and 54 Mbps</li> <li>802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)</li> </ul>	<ul style="list-style-type: none"> <li>802.11b/g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps</li> <li>802.11n: up to 300 Mbps in MCS15 (40 MHz; GI = 400 ns)</li> </ul>	<ul style="list-style-type: none"> <li>802.11n up to 450 Mbps</li> <li>802.11ac up to 1300 Mbps</li> </ul>
Frequency band	2.4 GHz (IEEE 802.11 b/g/n) • USA (FCC): 2.412 to 2.462 GHz • Europe (ETSI): 2.412 to 2.472 GHz • TWN (NCC): 2.412 to 2.462 GHz  5 GHz (IEEE 802.11 a/n) • USA: 5.150 to 5.250 GHz; 5.725 to 5.850 GHz • European (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz • Taiwan (TWN): 5.25 to 5.35 GHz; 5.725 to 5.850 GHz	2.4 GHz (IEEE 802.11 b/g/n) • USA (FCC): 2.412 to 2.462 GHz • Europe (ETSI): 2.412 to 2.472 GHz • TWN (NCC): 2.412 to 2.462 GHz	2.4 GHz (IEEE 802.11 b/g/n) • USA (FCC): 2.412 to 2.462 GHz • Europe (ETSI): 2.412 to 2.472 GHz • TWN (NCC): 2.412 to 2.462 GHz  5 GHz (IEEE 802.11 a/n/ac) • USA (FCC): 5.15 to 5.25 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.7250 to 5.850 GHz • Europe (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz • TWN (NCC): 5.15 to 5.25 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.7250 to 5.850 GHz
Receive sensitivity	2.4 GHz: • 11 Mbps ≤ -87 dBm • 54 Mbps ≤ -74 dBm • HT20 ≤ -71 dBm • HT40 ≤ -68 dBm  5 GHz: • 54 Mbps ≤ -75 dBm • HT20, MCS15 ≤ -71 dBm • HT40, MCS15 ≤ -69 dBm	2.4 GHz: • 11 Mbps ≤ -87 dBm • 54 Mbps ≤ -74 dBm • HT20, MCS15 ≤ -71 dBm • HT40, MCS15 ≤ -68 dBm	2.4 GHz: • 11 Mbps ≤ -87 dBm • HT20, MCS15 ≤ -71 dBm • 54 Mbps ≤ -74 dBm • HT40, MCS15 ≤ -67 dBm  5 GHz: • 54 Mbps ≤ -74 dBm • HT40, MCS23 ≤ -68 dBm • VHT40, MCS9 ≤ -62 dBm • HT20, MCS23 ≤ -71 dBm • VHT20, MCS8 ≤ -66 dBm • VHT80, MCS9 ≤ -59 dBm

USG20W-VPN			
Standard compliance	802.11 a/b/g/n/ac		
Wireless frequency	2.4 GHz/5 GHz		
Radio	1		
SSID number	8		
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz: 25 dBm, 3 antennas US (FCC) 5 GHz: 25 dBm, 3 antennas EU (ETSI) 2.4 GHz: 20 dBm (EIRP), 3 antennas EU (ETSI) 5 GHz: 20 dBm (EIRP), 3 antennas		
No. of antenna	3 detachable antennas		
Antenna gain	2 dBi @2.4 GHz, 3 dBi @5 GHz		
Data rate	802.11n Up to 450 Mbps; 802.11ac Up to 1300 Mbps		
Frequency band	2.4 GHz (IEEE 802.11 b/g/n) • USA (FCC): 2.412 to 2.462 GHz • Europe (ETSI): 2.412 to 2.472 GHz • TWN (NCC): 2.412 to 2.462 GHz  5 GHz (IEEE 802.11 a/n/ac) • USA (FCC): 5.15 to 5.25 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.7250 to 5.850 GHz • Europe (ETSI): 5.15 to 5.35 GHz; 5.470 to 5.725 GHz • TWN (NCC): 5.15 to 5.25 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.7250 to 5.850 GHz		
Receive sensitivity	2.4 GHz: • 11 Mbps ≤ -87 dBm • HT20, MCS15 ≤ -71 dBm • 54 Mbps ≤ -74 dBm • HT40, MCS15 ≤ -67 dBm  5 GHz: • 54 Mbps ≤ -74 dBm • HT40, MCS23 ≤ -68 dBm • VHT40, MCS9 ≤ -62 dBm • HT20, MCS23 ≤ -71 dBm • VHT20, MCS8 ≤ -66 dBm • VHT80, MCS9 ≤ -59 dBm		

# Product/Service Compatibility List

## Next Generation Unified Security Gateway

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

## VPN Firewall

Product	Medium-sized Businesses	Small- and Medium-sized Businesses		Remote Offices/ Small Businesses	
	USG2200-VPN	ZyWALL 1100	ZyWALL 310	ZyWALL 110	USG20-VPN USG20W-VPN
<b>VPN</b>					
<b>SSL VPN Tunnels</b>	Add 5/10/50 tunnels	Add 5/10/50 tunnels	Add 5/10/50 tunnels	Add 5/10/50 tunnels	Add 5/10 tunnels
<b>SSL VPN Client<sup>*1</sup></b>	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
<b>IPSec VPN Client</b>	For 1/5/10/50 clients	For 1/5/10/50 clients	For 1/5/10/50 clients	For 1/5/10/50 clients	For 1/5/10/50 clients
<b>Connectivity</b>					
<b>Concurrent Device Upgrade</b>	100/300 nodes	100/300 nodes	100/300 nodes	100 nodes	-
<b>Hotspot Management<sup>*2</sup></b>	1 year/one-time	1 year/one-time	1 year/one-time	1 year/one-time	-
<b>Managed Aps</b>	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs	Add 4/8 APs	-
<b>Device HA Pro</b>	One-time	One-time	One-time	One-time	-
<b>Vantage Report</b>	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

Product	NWA5120 Series	NWA5000 Series	NWA3000-N Series	WAC6500 Series
	Unified Access Point	Managed Access Point	Unified Pro Access Point	Unified Pro Access Point
<b>Models</b>	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
<b>Functions</b>				
<b>Central management</b>	Yes	Yes	Yes	Yes
<b>Auto provisioning</b>	Yes	Yes	Yes	Yes
<b>Data forwarding</b>	Local bridge	Local bridge	Local bridge	Local bridge



## Note



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