



# Security

# Preparing for the next wave of cyberattacks

## **How Safe is Your Network?**

Today, network attacks have become more sophisticated and targeted. Social networking applications have also opened up more channels for data breach than ever before. With the rise of BYOD (Bring Your Own Device), threats to business networks come from both outside and inside. It is now increasingly challenging for businesses to keep up with the changing threat landscape; and this is especially true for small-and medium-sized businesses, which do not have the staff and resources of larger corporations. Small-and medium-sized businesses need a solution that is efficient, inexpensive and provides an array of techniques to combat sophisticated network attacks.

## **Network Security** that Works

Businesses utilize network security appliances for two main reasons: to protect company resources from various threats and to enable secure communication between different locations via a Virtual Private Network (VPN). For several years, Zyxel's highly-acclaimed ATP and USG FLEX series have met these demands, safeguarding companies against new threats. Now, Zyxel offers a new product line, the USG FLEX H series, that provides unrivaled capacity, performance, and protection for businesses of all sizes. Additionally, the new SCR series featuring subscription-free security and built-in WiFi offers a simpler way for small businesses to establish network protection.



# **Zyxel Security Portfolio**

	Model Series			
	High Performance	Security Bundled	Flexibility	Effortless
Users	USG FLEX H	ATP	USG FLEX	SCR
Up to 500	USG FLEX 700H	ATP800		
Up to 350		ATP700	USG FLEX 700	
Up to 200	USG FLEX 500H	ATP500	USG FLEX 500	
Up to 50	USG FLEX 200H USG FLEX 200HP	ATP200	USG FLEX 200	
Up to 25	USG FLEX 100H USG FLEX 100HP	ATP100	USG FLEX 100 USG FLEX 100AX	
Up to 15			USG FLEX 50 USG FLEX 50AX	
Up to 10				SCR 50AXE

# **Zyxel security solutions**

## **USG FLEX H Firewalls USG FLEX Firewalls**

The high-performance USG FLEX H series provides 3x firewall/UTM/VPN throughput and PoE+ interfaces to prepare for the multi-G era. It offers multi-layered protection against cyber threats through Zyxel Al cloud and extends the same security to remote networks with enhanced SecuExtender. Get enterprise-grade security at lightning speed for your small or mid-sized business.

The USG FLEX series provides cloud-based management and collaborative protection for small and mid-sized businesses. It offers powerful UTM performance with automatic responses to expand protection from firewalls to access points, all while minimizing computing power usage.

## **ATP Firewalls**

The ZyWALL ATP Firewall Series is empowered with smart cloud intelligence giving seamless protection against all those Advanced Persistent Threats, achieving ultimate in-depth defense of future unknown attacks.

## **Security Router**

The SCR series is a secure cloud-managed router that offers business-class firewall, VPN gateway, latest WiFi technology, and built-in security to safeguard against ransomware and other threats. It's a perfect solution for teleworkers or small businesses/offices looking for easy-to-manage and subscription-free network security.

# **Security Services**and Licenses

Find the perfect licensing option for your security devices with our flexible options tailored to meet your business needs. Our security licenses cover a range of solutions, including security, connectivity, management, reporting, and vertical-specific licenses. With our expert guidance and support, you can rest assured that your business is fully protected from all potential security threats, now and in the future.

## **Security Services and Licenses**

For purchase/renewal of licenses, go directly on our new e-commerce platform Zyxel Marketplace or contact our reseller.

Services	Key Features
Security Service	
Anti-Virus/Malware	Scan files for viruses, Trojan, worms, malwares before they reach your network.  • Stream-based scan technology without file size limitation  • Daily data feed of top-ranked threats
Anti-Spam/Email Security	Fast detect with cloud-based database/mail fingerprints to block spam/phishing mail with malicious contents
	<ul> <li>IP reputation filter provides low latency reaction</li> </ul>
	Support black/white listing for custom policies
<b>49</b>	Cloud-based database provide real-time protection
Web Filtering	Cloud-based real-time access control for inappropriate, unproductive, illegal and
	malicious websites  • Categorized website access management for increased efficiency
	Granular policies controlled by IP address, user, group, or schedule
IPS	Deep-packet inspection across all ports and protocols at gateway to against known
	<ul> <li>attacks from network</li> <li>Shields vulnerabilities before they can be exploited and eliminates the operational pains of emergency patching</li> </ul>
( <del>0</del> )	Customized signature support to create your own rules
	Constant signature auto-updates
Application Patrol	Automatically categorize and manage the network applications usage
	<ul> <li>Granular policies control by IP address, user, group, schedule</li> <li>Profile based policy to ensure network quality and easy manage business rule</li> </ul>
	Thomas based policy to chisare network quality and easy manage basiness rule
Geo Enforcer	Manage network traffic by mapping IP address to geographical regions to prevent
	fraud or cyber attacks
	Geographical visibility for traffic statistics and logs
<b>(+)</b>	<ul> <li>IPv6 address support</li> <li>Automatic IP/geography database update</li> </ul>
	- Automatic ir/geography database apaate

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Key Features
<ul> <li>Cloud-based sandbox technology against unknown threats</li> <li>Comprehensive inspection for a wide range file types</li> <li>Cloud-based sandbox provide instant protection without needing a dedicated hardware or software upgrade</li> </ul>
Block botnet infection and prevent drive-by download from infected websites  • IP/URL feeds to detect/block botnet commands and control activities  • Cloud-based URL feeds to block access to anomalous websites  • IP-based reputation filter  • Supports 10 Cyber Threat Categories  • Inbound & Outbound traffic filtering  • Blacklist and whitelist support
<ul> <li>Secure tunnel and managed AP service</li> <li>L2 access between home and office network</li> <li>Enforcing 2FA with Google Authenticator</li> <li>WPA2 Enterprise (802.1x) supported</li> </ul>
<ul> <li>Cloud-based service and email protection for Office 365, G Suite and on-premise e-mail</li> <li>Stop unwanted spam, phishing and malware with real-time threat intelligence</li> <li>No change to your existing infrastructure, zero maintenance</li> </ul>

#### **Cloud Email Security**

- Extend protection to mobile devices into network
- Shows brief summary about the member activities

• Respond faster with web management and monitoring

• Monitor and analyze the usage and measure most used resources

• Reduce management overhead and stop wasting IT admin resources

- Stop users from unsafe websites, record every attempt, and trigger time
- Block, record all suspicious IP to get full range security monitoring and protection from online threats

#### **Vertical Solutions**

#### **Hotspot Management**

- Support SP350E printer manager support purple WiFi and third-party social log in
- Billing replenishment

Services	Varifications
Services	Key Features
Vertical Solutions	
Managed AP Service	<ul> <li>Integrated AP controller as central management to provide flexible deployment options</li> <li>AP auto discovery and provisioning</li> </ul>
<b>70</b>	AP forwarding compatibility
Device High Availability Pro	<ul> <li>Device failure detection and notification</li> <li>Configuration auto-sync and link monitoring</li> <li>Smart handover through dedicated Heartbeat Link</li> </ul>

• NAT/Firewall/VPN Sessions synchronization

#### **VPN Client Software**

#### SecuExtender VPN Client

- Providing solutions of both SSL VPN and IPSec VPN remote access
- Enhanced layered security incorporating Zyxel security appliances
- Easy and intelligent installation

#### Network Premium

#### Single Sign-On

- Simplified single sign in to multiple resources
- Improved user experience without repetitive logging in between various web browsers
- Login mechanism works with any protocol, not just HTTP



#### Management & Reporting

### Cloud CNM SecuReporter

- Multidimensional analytics on abnormal behaviors
- Cloud-based real-time monitoring and alerts
- Effective event correlation and user behavior analytics
- Intuitive dashboard and customizable report



# Pick a bundle. No more hassle

# **License by Bundle**

A bundle license consists of multiple services that are grouped together. They are designed for your best convenience when you need to ensure your network is

empowered with holistic functionality such as seamless threat protection or full connectivity features. Pick the right bundle and experience less hassle.

		Security											Connectiv	ity				
Pack	Firewall Series	Licensed 9	Service										Licensed S	ervice				
	001100	Anti-Malware Virus	e/ Web Filtering Content Filtering	/ Sandboxing	Reputation Filter	IPS/IDP	Application Patrol	Email Security/ Anti-Spam	SecuReporter	Security Profile Sync	Collaborative Detection & Response	Ransomware Prevention Premium	Network Premium	Secure WiFi	Hotspot Management	Concurrent Device Upgrade	Nebula Professional Pack	Nebula Plus Pack
				0	G			XÓ		O			От	<b>10</b>	<b>70</b>	200		
			Block access to malicious or risky web sites	Cloud-based sandbox technology against unknown threats	Block botnet infection and prevent drive-by download from infected websites via IP and URL detection	Deep-packet inspection against known attacks from network	Automatically categorize and manage the network application usage	Fast detection to block spam/ phishing mail with malicious contents	Cloud-based security analytics and report with 30-day log retention	tool to help	Automatically contain threats at the network edge	updated threat	Simplified single sign in to multiple resources	Secure tunnel and managed AP service	Various Network Access Control	number of	d A full feature set of cloud configuration, deployment, monitoring and management	frequently requested advanced
Gold Security	USG FLEX H*4	•	•	•	•	•	•	•	•	•	•		•	•			<b>●</b> *4	
Pack	ATP	•	•	•	•	•	•	•	•	•	•		•	•			•	
	USG FLEX*3	•	•	•	•	•	•	•	•	•	•		•	•			•	
UTM Security Pack	USG FLEX*3	•	•			•	•	•	•	•	•		•	●* <sup>2</sup>	<b>●*</b> <sup>2</sup>	●* <sup>2</sup>	◆*2	◆*2
Content	USG FLEX 50(AX	)	•						•	•			•				●* <sup>2</sup>	●* <sup>2</sup>
Pack	USG20(W)-VPN		•						•	•			•				●* <sup>2</sup>	●* <sup>2</sup>
3-in-1 UTM Security Pack	USG	•	•			●*¹	●*¹		•									
2-in-1 Nebula Security Pack	NSG	•	•			●*¹	●*¹										●* <sup>2</sup>	•*2
SCR Pro Pack	SCR		•									•					•	

\*1: The IPS and App Patrol service would be offered for free
\*2: Pack Purchasing Options:
• Secure WiFi
• Hospitality Pack incl. Hotspot Management and Concurrent Device Upgrade

Nebula Professional Pack
 Nebula Plus Pack

\*\* Nebular Profes Pack
\*\*3: USG FLEX 50 is not supported for Gold and UTM Security Pack
\*\*4: Network Premium, Security Profile Sync, Collaborative Detection & Response, and Secure WiFi for USG FLEX H series will be available later and are subject to changes without notice.

# **Licensed Service by Model**

#### Security

Compatible Security Appliances	Licensed Service										
	Web Filtering/ Content Filtering	Application Patrol	Anti-Malware/Virus	IPS/IDP	Email Security/ Anti-Spam	Security Profile Sync	Collaborative Detection & Response	SecuReporter	Sandboxing	Reputation Filter	SecuExtender VPN Client
	Ţ				26	$\Theta$			0	G	and the same of th
	Block access to malicious or risky web sites	Automatically categorize and manage the network application usage	Scan files at the gateway for viruses and other threats	Deep-packet inspection against known attacks from network	Fast detection to block spam/phishing mail with malicious contents	An easy-to-use tool to help business sync up security profiles across multiple networks	Automatically contain threats at the network edge	Cloud-based security analytics and report with 30-day log retention	Cloud-based sandbox technology against unknown threats	Block botnet infection and prevent drive-by download from infected websites via IP and URL detection	SSL VPN and IPSec VPN remote access tool
USG FLEX 100H/200H/500H/700H*	•	•	•	•	•			•	•	•	•
ATP100(W)/200	•	•	•	•	•	•	•	•	•	•	•
ATP500/700/800	•	•	•	•	•	•	•	•	•	•	•
USG FLEX 50(AX)	•					•		•			•
USG FLEX 100(AX/W)	•	•	•	•	•	•	•	•	•	•	•
USG FLEX 200	•	•	•	•	•	•	•	•	•	•	•
USG FLEX 500/700	•	•	•	•	•	•	•	•	•	•	•
SCR 50AXE	•	•									

<sup>\*:</sup> Network Premium, Security Profile Sync, Collaborative Detection & Response, and Secure WiFi for USG FLEX H series will be available later and are subject to changes without notice.

#### Connectivity

**USG FLEX** 

ATP100(W)/200 ATP500/700/800 USG FLEX 50(AX) USG FLEX 100(AX/W) **USG FLEX 200** USG FLEX 500/700

100H/200H/500H/700H\*

Compatible Security	L
Appliances	S

## censed Secure WiFi

Network Premium

Hotspot Management





Concurrent



Nebula

Professional





Nebula

Plus

Pack



Licensed

Amazon

VPC

Easy

network

with AWS



Microsoft

Azure



Service

Managed AP





Prevent

Threat



Geo Enforcer



SSL (HTTPS)

Inspection





Device High

Availability Pro Network



Zyxel One



Pack

Nebula Base

Secure
tunnel and
managed
AP service

Simplified sinale sign in to multiple resources Various Network Access Control

Top up allowed A full feature number of connected clients

set of cloud configuration, deployment, monitoring and management

A new feature set includes the most frequently requested advanced features

Easy network integration integration with Azure

AP auto discovery and provisioning

**Default Support for Registered Devices** 

Add an extra laver of protection to mitigate the risk of credential leakage or brute force

Two-Factor

Authentication

phishing attack

ransomware, intrusion, by mapping exploit, dark IP address to web, ads, VPN geographical proxy and regions mail fraud &

Manage Unlock network traffic encrypted sessions, scan encrypted packets, find threats, and block them

Deploy agentless scanning of the network for discovery and classification of devices

Device failure detection and

installation tool for Zyxel switches, WLAN and gateways

A Unified

License-free feature set with management features

SCR 50AXE \*: Network Premium, Security Profile Sync, Collaborative Detection & Response, and Secure WiFi for USG FLEX H series will be available later and are subject to changes without notice.

# **Specifications**

#### **ZyWALL USG FLEX H Firewalls**

Model		USG FLEX 100H/100HP	USG FLEX 200H/200HP	USG FLEX 500H	USG FLEX 700H
	pecifications		00012272001720011		000122770011
Interface po		100H: 8 x 1GbE Ethernet 100HP: 1 x PoE+ Ethernet (802.3at, 30W max.)	200H: 2 x 2.5GbE Ethernet 6 x 1GbE Ethernet 200HP: 1 x PoE+ Ethernet (802.3at, 30W max.)	2 x 2.5GbE Ethernet 2 x 2.5GbE/PoE Ethernet (802.3at, total 30 W) 8 x 1GbE Ethernet	2 x 2.5GbE Ethernet 2 x 10GbE/PoE Ethernet (802.3at, total 30 W) 8 x 1GbE Ethernet 2 x 10GbE SFP+
USB 3.0 por		1	1	1	1
Console por		Yes (RJ-45)	Yes (RJ-45) Yes	Yes (RJ-45)	Yes (RJ-45)
Rack-moun	table	Yes	Yes	Yes -	Yes -
	acity & Performance*		. 00		
	throughput (Mbps)*2	3,000	5,000	10,000	15,000
	hput (Mbps)*3	750	1,200	2,000	3,000
	put (Mbps)*4 re throughput (Mbps)*4	1,500 750	2,000 1,500	3,500 2,500	6,300 4,000
UTM throug	<u> </u>	750	1,500	2,500	4,000
(Anti-Malwa	are and IPS)*4				
	oncurrent sessions*5	300,000	600,000	1,000,000	2,000,000
	rrent IPsec VPN tunnels <sup>16</sup> ded gateway-to-gateway	20	100 50	300 150	1,000
IPsec VPN t		20	00	100	
	SSL VPN users	25	50	150	500
VLAN interf		16 64	32 200	64 300	128 4,000
Security Ser	rrent devices logins <sup>*7</sup> rvices* <sup>8</sup>	U <del>-1</del>	200	000	4,000
Anti-Malwa		Yes	Yes	Yes	Yes
IPS		Yes	Yes	Yes	Yes
Application		Yes	Yes	Yes	Yes
Web Filterin	•	Yes Yes	Yes Yes	Yes Yes	Yes Yes
SecuReport		Yes	Yes	Yes	Yes
Sandboxing		Yes	Yes	Yes	Yes
Device Insig	<u> </u>	Yes	Yes	Yes	Yes
Secure WiFi		Yes	Yes	Yes	Yes
Key Feature VPN	es .	IKEv2, IPSec, SSL	KEv2, IPSec, SSL	KEv2, IPSec, SSL	KEv2, IPSec, SSL
SSL (HTTPS	) Inspection	Yes	Yes	Yes	Yes
Two-Factor	Authentication	Yes	Yes	Yes	Yes
	gation (LAG)*10	Yes	Yes	Yes	Yes
Power Required Power input		100H: 12 V DC, 2 A max.	200H: 12 V DC, 2 A max.	19 V DC, 4.736 A	100 - 240 V AC,
rower input	•	100HP: 19 V DC, 3.42 A	200HP: 19 V DC, 3.42 A	19 V DC, 4.730 A	50/60 Hz, 2 A max
Max. power	consumption (watt max.)	100H: 17	200H: 22	68	86.7
Heat dissing	ation (BTU/hr)	100HP: 51.2 100H: 40.365	200HP: 62 200H: 58.75	211.3	235
		100HP: 194.5	200HP: 191.9	20	
	oudget (watt max.)	-	-	30	30
Physical Spotential	ecifications Dimensions	216 x 143 x 33/	272 x 187 x 36/	300 x 182 x 43.5/	430 x 250 x 43.5/
item	(WxDxH)(mm/in.)	8.50 x 5.80 x 1.30	10.7 x 7.36 x 1.42	11.81 x 7.17 x 1.71	16.93 x 9.84 x 1.71
	Weight (kg/lb.)	100H: 1.04/2.29	200H: 1.52/3.34 200HP: 1.52/3.35	1.64/3.62	3.14/6.93
Packing	Dimensions	100HP: 1.05/2.31 278 x 189 x 99/	427 x 247 x 73/	350 x 149 x 244/	512 x 395 x 162/
9	(WxDxH)(mm/in.)	10.94 x 7.44 x 3.89	16.81 x 9.72 x 2.87	13.78 x 5.87 x 9.61	20.16 x 15.55 x 6.38
	Weight (kg/lb.)	100H: 1.62/3.57 100HP: 1.91/4.21	200H: 2.43/5.36 200HP: 2.68/5.92	2.93/6.46	4.90/10.81
Included acc	cessories Ital Specifications	Power adapter Power cord (100HP) RJ-45 - RS-232 cable for console connection	Power adapter Power cord (200HP) RJ-45 - RS-232 cable for console connection Rack mounting kit (optional, by regions)	Power adapter & power cord RJ-45 - RS-232 cable for console connection Rack mounting kit	Power adapter     RJ-45 - RS-232 cable for console connection     Rack mounting kit
Operating	Temperature	0°C to 40°C/	0°C to 40°C/	0°C to 40°C/	0°C to 40°C/
oporading	. omporature	32°F to 104°F	32°F to 104°F	32°F to 104°F	32°F to 104°F
	Humidity	10% to 90%	10% to 90%	10% to 90%	10% to 90%
Storage	Temperature	(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/
		-22°F to 158°F	-22°F to 158°F	-22°F to 158°F	-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)		100H: 40°C/289845.2327 hr 25°C/518347.4294 hr 100HP: 40°C/291183.7887 hr 25°C/550382.5753 hr	200H: 40°C/306768.409 hr 25°C/528037.0106 hr 200HP: 40°C/227747.9662 hr 25°C/392638.3847 hr	40°C/346653.298 hr 25°C/491775.8384 hr	40°C/431877.9743 hr 25°C/669031.2966 hr
Acoustic no		-	-	16.86 dBA on < 25°C operating temperature, 43.76 dBA on full FAN speed	16.85 dBA on < 25d°C operating temperature, 47.84 dBA on full FAN speed
Certification	ns	ECC Part 15 (Class D)	ECC Dart 1E (Class D)	ECC Dart 15 (Class A)	ECC Part 1E (Class A)
EMC		FCC Part 15 (Class B), CE EMC (Class B), RCM (Class B), BSMI	FCC Part 15 (Class B), CE EMC (Class B), RCM (Class B), BSMI	FCC Part 15 (Class A), CE EMC (Class A), RCM (Class A), BSMI	FCC Part 15 (Class A), CE EMC (Class A), RCM (Class A), BSMI
Safety		LVD (EN62368-1), BSMI	LVD (EN62368-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN62368-1), BSMI

- \*: This matrix with firmware uOS1:10 or later.

  \*1: Actual performance may vary depending on system configuration, network conditions, and activated applications.

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

  \*3: VPN throughput measurement are based on RFC 2544 (1,424-byte UDP packets); IMIX: UDP throughput based on a combination of 64 byte, 512 byte, and 1424 byte packet sizes.
- \*4: Anti-Malware (with Express Mode) and IPS throughput is measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.

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

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

  \*7: This is the recommend maximum number of concurrent logged-in devices.

  \*8: With Zyxel service license to enable or extend the feature capacity.

  \*9: Available in Q2, 2024.

### **ZyWALL ATP Firewalls**

fications	3 x LAN/DMZ, 1 x WAN,	3 x LAN/DMZ, 1 x WAN,	4 1 - 4 1 1 / 1 / 1 / 2
	3 x LAN/DMZ, 1 x WAN,	3 V L AN/DM7 1 V WAN	4 - 1 4 5 1 / 10 5 4 7
	1x SFP, 1x OPT	1x SFP, 1x OPT	4 x LAN/DMZ, 2 x WAN, 1 x SFP
	1	1	2
	Yes (RJ-45)	Yes (RJ-45)	Yes (DB9)
•	-	-	Yes
	Yes	Yes	Yes
y & Performance <sup>*1</sup>			
	<u>'</u>	·	2,000
· ·			1,200
			630
(AV and IDP)'4	380	380	630
rrent sessions' <sup>5</sup>	300,000	300,000	600,000
IPSec VPN tunnels*6	40	40	100
VPN users	30	30	60
	8	8	16
	950	950	900
agriput (Mbps) ·	00U	00U	300
Sandboxina*8	Yes	Yes	Yes
Web Filtering's	Yes	Yes	Yes
Application Patrol*8	Yes	Yes	Yes
Anti-Malware*8	Yes	Yes	Yes
IPS*8	Yes	Yes	Yes
Reputation Filter*8	Yes	Yes	Yes
			Yes
-			Yes Yes
			Yes
			Yes
	Yes	Yes	Yes
Two-Factor Authentication	Yes	Yes	Yes
VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
Microsoft Azure	Yes	Yes	Yes
			Yes
			8
			20 Yes
			10
	24	24	40
Nebula Cloud Mode	Yes	Yes	Yes
Nebula Cloud Monitoring Mode	Yes	Yes	Yes
Device HA Pro	-	-	-
Link Aggregation (LAG)		-	-
-	64	64	200
ents	12 V DC 2 A may	12 V DC 2 A may	12 V DC, 2.5 A max.
sumption (watt)			13.3
(BTU/hr)	42.65	42.65	45.38
cations			
Dimensions (WxDxH)(mm/in.)	216 x 143 x 33/8.50 x 5.80 x 1.30	216 x 147.3 x 33/8.50 x 5.80 x 1.30	272 x 187 x 36/10.7 x 7.36 x 1.42
Weight (kg/lb.)	0.85/1.87	0.85/1.87	1.4/3.09
			2.42/5.34 • Power adapter
леъ	• RJ-45 cable	• RJ-45 cable	<ul><li>Power adapter</li><li>Rack mounting kit</li></ul>
	• RS-232 cable	RS-232 cable	(optional, by regions)
•	0°0 to 40°0/00°5 to 40.40°5	000 to 4000/0005 to 40405	0°0 to 40°0/00°E / 40 40°E
			0°C to 40°C/32°F to 104°F
			10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F
			10% to 90% (non-condensing)
	989,810.8	989,810.8	529,688.2
	-	-	-
	FCC Part 15 (Class B),	FCC Part 15 (Class B),	FCC Part 15 (Class B),
	CE EMC (Class B), BSMI	CE EMC (Class B), BSMI	CE (Class B), C-Tick (Class B), BSMI
	y & Performance"  Jaghput (Mbps)"  Mbps)"  Mbps)"  Mbps)"  (AV and IDP)"  Trent sessions"  IPSec VPN tunnels"  VPN users  Jaghput (Mbps)"  Sandboxing"  Web Filtering"  Application Patrol"  Anti-Malware"  IPS"  Reputation Filter"  Geo Enforcer  SecuReporter"  Collaborative Detection & Response"  Device Insight  Security Profile Sync (SPS)"  SSL (HTTPS) Inspection  Two-Factor Authentication  VPN  Microsoft Azure  Amazon VPC  Default Number of Managed AP  Recommend Max. AP in 1 AP Group  Secure WiFi Service"  Maximum Number of Tunnel-Mode AP  Maximum Number of Managed AP  Nebula Cloud Mode  Nebula Cloud Mode  Nebula Cloud Monitoring Mode  Device HA Pro  Link Aggregation (LAG)  Concurrent Devices Logins (max.)  ents  Jumption (watt)  (BTU/hr)  Cations  Dimensions (WxDxH)(mm/in.)	Performance   Yes   Ye	Part   Part

<sup>\*:</sup> This matrix with firmware ZLD5.37 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 (with Express mode) and IDP throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.

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

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

\*7: The Speedtest result is conducted with 1 Gbps WAN link in real world and it is subject to fluctuate due to quality of the ISP link.

\*8: Enable or extend feature capacity with Zyxel service license.

\*9: ATPION rev! is adapting new hardware design equipped with 4 x I AN/DM7.1 x WAN

#### **ZyWALL ATP Firewalls**

Model		ZyWALL ATP500	ZyWALL ATP700	ZyWALL ATP800
Hardware Speci	fications			
nterfaces		7 (configurable),	12 (configurable),	12 (configurable),
ICD 2 O manta		1x SFP	2 x SFP (configurable)	2 x SFP (configurable)
JSB 3.0 ports		Yes (DB9)	Yes (DB9)	Yes (DB9)
onsole port ack-mountable	•	Yes (DB9)	Yes (DB9)	Yes (DB9)
anless	e	-	-	-
	ry & Performance <sup>11</sup>			_
	ughput (Mbps)*2	2,600	6,000	8,000
PN throughput		900	1,200	1,500
DP throughput	-	1,700	2,200	2,700
V throughput (		900	1,600	2,000
	t (AV and IDP)*4	890	1,500	1,900
	rrent sessions*5	1,000,000	1,600,000	2,000,000
lax. concurrent	t IPSec VPN tunnels*6	300	1,000	1,000
oncurrent SSL	VPN users	150	150	500
LAN interface		64	128	128
peedtest Perfo	rmance			
PI firewall thro	ughput (Mbps)*7	900	930	930
ey Features				
ecurity	Sandboxing*8	Yes	Yes	Yes
ervice	Web Filtering*8	Yes	Yes	Yes
	Application Patrol*8	Yes	Yes	Yes
	Anti-Malware*8	Yes	Yes	Yes
	IPS*8	Yes	Yes	Yes
	Reputation Filter*8	Yes	Yes	Yes
	Geo Enforcer	Yes	Yes	Yes
	SecuReporter'8	Yes	Yes	Yes
	Collaborative Detection & Response's	Yes	Yes	Yes
	Device Insight	Yes	Yes	Yes
	Security Profile Sync (SPS)*8	Yes	Yes	Yes
	SSL (HTTPS) Inspection	Yes	Yes	Yes
	Two-Factor Authentication	Yes	Yes	Yes
PN eatures	VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
eutures	Microsoft Azure	Yes	Yes	Yes
	Amazon VPC	Yes	Yes	Yes
/LAN lanagement	Default Number of Managed AP	8	8	8
idilagement	Recommend Max. AP in 1 AP Group	60	200	300
	Secure WiFi Service's	Yes	Yes	Yes
	Maximum Number of Tunnel-Mode AP	18	66	130
	Maximum Number of Managed AP	72	264	520
lanagement & onnectivity	Nebula Cloud Mode	Yes	Yes	Yes
	Nebula Cloud Monitoring Mode	Yes	Yes	Yes
	Device HA Pro	Yes	Yes	Yes
	Link Aggregation (LAG)	Yes	Yes	Yes
owan Damilian	Concurrent Devices Logins (max.)	300	1500	1500
ower Requirem	lents	12 V DC, 4.17 A	100 - 240 V AC, 50/60 Hz,	100 - 240 V AC, 50/60 Hz,
ower input		12 V DO, 4.17 A	2.5 A max.	2.5 A max.
ax. power cons	sumption (watt)	24.1	46	46
eat dissipation		82.23	120.1	120.1
nysical Specifi				
em	Dimensions (WxDxH)(mm/in.)	300 x 188 x 44/11.81 x 7.4 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
	Weight (kg/lb.)	1.65/3.64	3.3/7.28	3.3/7.28
acking	Dimensions (WxDxH)(mm/in.)	351 x 152 x 245/13.82 x 5.98 x 9.65	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
	Weight (kg/lb.)	2.83/6.24	4.8/10.58	4.8/10.58
cluded access	ories	Power adapter	Power cord	Power cord
		<ul><li>Power cord</li><li>Rack mounting kit</li></ul>	Rack mounting kit	<ul> <li>Rack mounting kit</li> </ul>
nvironmental S	Specifications	- Rack mounting kit		
perating	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
torage	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
ITBF (hr)		529,688.2	947,736	947,736
coustic noise		24.5 dBA on < 25°C	25.3 dBA on < 25°C	25.3 dBA on < 25°C
		operating temperature,	operating temperature,	operating temperature,
		41.5 dBA on full FAN speed	46.2 dBA on full FAN speed	46.2 dBA on full FAN speed
ertifications		500 B 145 (0)	500 D 145 (0)	500 D 145 (C) 13
мс		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
		0 11011 (0100071)/201111		0 11011 (0100071)/ 201111

- \*: This matrix with firmware ZLD5.37 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 (with Express mode) and IDP throughput measured using the industry standard HTTP performance test (1,460-byte HTTP packets). Testing done with multiple flows.

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

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

  \*7: The Speedtest result is conducted with 1 Gbps WAN link in real world and it is subject to fluctuate due to quality of the ISP link.

  \*8: Enable or extend feature capacity with Zyxel service license.

  \*9: ATP100 rev1 is adapting new hardware design equipped with 4 x LAN/DMZ, 1 x WAN.

#### **ZyWALL USG FLEX Firewalls**

Model		USG FLEX 50	USG FLEX 50AX
Hardware Speci	fications		
WiFi standard	nodelons	N/A	802.11 ax/ac/n/g/b/a
10/100/1000 Mbi	ns R.I-45 norts	4 x LAN/DMZ,1 x WAN	4 x LAN/DMZ,1 x WAN
USB 3.0 ports	pa No-40 por ta	2	2
Console port		Yes (RJ-45)	Yes (RJ-45)
Rack-mountable	•	N/A	N/A
Fanless	5	Yes	Yes
	y & Performance <sup>11</sup>	165	165
SPI firewall thro	•	350	350
VPN throughput	· · · · · · · · · · · · · · · · · · ·	90	90
VPN IMIX throug		40	40
Max. TCP concu		20,000	20,000
	t IPsec VPN tunnels*5	20,000	20,000
		5	5
	gateway-to-gateway IPsec VPN tunnels	5/15	15
	VPN users (default/max.)		
VLAN interface		8	8
Speedtest Perfo		320	320
SPI firewall thro	ugnput (Mbps) °	320	320
Key Features	144 L =*1. * *7		<u> </u>
Security Service	Web Filtering <sup>*7</sup>	Yes	Yes
001 1100	SecuReporter*7	Yes	Yes
	Two-Factor Authentication	Yes	Yes
	Device Insight	Yes	Yes
	Security Profile Synchronize <sup>7</sup>	Yes	Yes
VPN Features	VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
reatures	Microsoft Azure	Yes	N/A
	Amazon VPC	Yes	Yes
Management &	Nebula Cloud Mode	Yes	Yes
Connectivity	Nebula Cloud Monitoring Mode	Yes	Yes
	Easy Mode'8	Yes	Yes
	Concurrent Devices Logins*9	64	64
Power Requirem	ients		
Power input		12 V DC, 2.0 A max.	12 V DC, 2.5 A max.
Max. power cons	sumption (watt max.)	12	24.3
Heat dissipation	(BTU/hr)	40.92	55.37
Physical Specific	cations		
Item	Dimensions (WxDxH)(mm/in.)	216 x 143 x 33/8.50 x 5.63 x 1.30	216 x 149.28 x 33/8.50 x 5.88 x 1.30
	Weight (Kg/lb.)	0.88/1.94	1.00/2.20
Packing	Dimensions (WxDxH)(mm/in.)	276 x 185 x 98/10.87 x 7.28 x 3.86	276 x 185 x 98/10.87 x 7.28 x 3.86
	Weight (kg/lb.)	1.41/3.11	1.53/3.37
Included access	ories	Power adapter     RJ-45 - RS-232 cable for console connection	Power adapter with plug     RJ-45 - RS-232 cable for console connection     Antenna
Environmental S	Specifications		
Operating	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage	Temperature	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)
MTBF (hr)		655,130	766,228.2
Certifications			
EMC		FCC Part 15 (Class B), IC, CE EMC (Class B),	FCC Part 15 (Class B), IC EMC (Class B),
LIVIO		RCM, BSMI	CE EMC (Class B), RCM (Class B), BSMI

\*: This matrix with firmware ZLD5.37 or later.

\*1: Actual performance may vary depending on system configuration, 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); IMIX: UDP throughput based on a combination of 64 byte, 512 byte and 1424 byte packet sizes.

\*4: Maximum sessions measured using the industry standard IXIA IxLoad testing tool.

\*5: Including Gateway-to-Gateway and Client-to-Gateway.

\*6: The Speedtest result is conducted with 1 Gbps WAN link in real world and it is subject to fluctuate due to quality of the ISP link.

\*7: With Zyxel service license to enable or extend the feature capacity.

\*8: Only applicable when devices are in on-premise mode.

\*9: This is the recommend maximum number of concurrent logged-in devices.

#### **ZyWALL USG FLEX Firewalls**

Model		USG FLEX 100*11	USG FLEX 100AX
	£:k:	030 FEEX 100	USO FLEX IOUAX
Hardware Specif	rications	NI/A	00011
WiFi standard	no D I dE norto	N/A	802.11 ax/ac/n/g/b/a
10/100/1000 Mbp USB 3.0 ports	ps kJ-45 ports	4 x LAN/DMZ, 1 x WAN	4 x LAN/DMZ,1 x WAN
Console port		Yes (RJ-45)	Yes (RJ-45)
Rack-mountable	•	N/A	N/A
Fanless	<del>5</del>	Yes	Yes
	y & Performance <sup>11</sup>	165	165
	ughput (Mbps)*2	900	900
/PN throughput		270	270
/PN IMIX throug	· · ·	100	100
PS throughput (		540	540
	roughput (Mbps)*4	360	360
JTM throughput	t (Anti-Malware and IPS)(Mbps)*4	360	360
Max. TCP concu	rrent sessions*5	300,000	300,000
Recommended g	gateway-to-gateway IPsec VPN tunnels	20	20
Max. concurrent	IPsec VPN tunnels*6	50	50
Concurrent SSL	VPN users	30	30
/LAN interface		8	8
Speedtest Perfo	rmance		
PI firewall throu	ughput (Mbps)*11	848	848
ey Features			
ecurity	Sandboxing*7	Yes	Yes
ervice	Web Filtering*7	Yes	Yes
	Application Patrol*7	Yes	Yes
	Anti-Malware*7	Yes	Yes
	IPS*7	Yes	Yes
	Reputation Filter*7	Yes	Yes
	Geo Enforcer*7	Yes	Yes
	SecuReporter*7	Yes	Yes
	Collaborative Detection & Response*7	Yes	Yes
	Device Insight	Yes	Yes
	Security Profile Sync*7	Yes	Yes
	SSL (HTTPS) Inspection	Yes	Yes
	Two-Factor Authentication	Yes	Yes
	Email Security	Yes	Yes
/PN	VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
eatures	Microsoft Azure	Yes	Yes
	Amazon VPC	Yes	Yes
VLAN	Default Number of Managed AP	8	8
Management	Recommend Max. AP in 1 AP Group	10	10
	Secure WiFi Service*7	Yes	Yes
	Maximum Number of Tunnel-Mode AP	6	6
	Maximum Number of Managed AP	24	24
Management &	Nebula Cloud Mode	Yes	Yes
Connectivity	Nebula Cloud Monitoring Mode	Yes	Yes
	Device HA Pro	N/A	N/A
	Link Aggregation (LAG)	N/A	N/A
	Hotspot Management*7	N/A	N/A
	Ticket Printer Support*9/Support Q'ty (max.)	N/A	N/A
	Concurrent Devices Logins (default/max.)*7*8	64	64
ower Requirem	ents		
ower input		12 V DC, 2 A max.	12 V DC, 2.5 A max.
lax. power cons	sumption (watt Max.)	12.5	24.3
leat dissipation		42.65	55.37
Physical Specific		0.0	220 440 20 40 25 25 25 25
tem	Dimensions (WxDxH)(mm/in.)	216 x 147.3 x 33/8.50 x 5.80 x 1.30	216 x 149.28 x 33/8.50 x 5.88 x 1.30
	Weight (Kg/lb.)	0.85/1.87	1.00/2.20
		284 x 190 x 100/11.18 x 7.48 x 3.94	284 x 190 x 100/11.18 x 7.48 x 3.94
Packing	Dimensions (WxDxH)(mm/in.)		
	Weight (kg/lb.)	1.40/3.09	1.53/3.37
	Weight (kg/lb.)	1.40/3.09 • Power adapter • RJ-45 - RS-232 cable for console connection	1.53/3.37  • Power adapter with plug  • RJ-45 - RS-232 cable for console connections the same share and the
ncluded accesso	Weight (kg/lb.) ories	Power adapter	Power adapter with plug     RJ-45 - RS-232 cable for console connections
ncluded accesso	Weight (kg/lb.) ories	Power adapter	Power adapter with plug     RJ-45 - RS-232 cable for console connections
ncluded accesso	Weight (kg/lb.) ories Specifications	Power adapter     RJ-45 - RS-232 cable for console connection	Power adapter with plug     RJ-45 - RS-232 cable for console connection     Antenna
ncluded accessons of the control of	Weight (kg/lb.) ories Specifications Temperature	Power adapter RJ-45 - RS-232 cable for console connection  0°C to 40°C/32°F to 104°F	Power adapter with plug RJ-45 - RS-232 cable for console connections. Antenna  O°C to 40°C/32°F to 104°F
ncluded accessons of the control of	Weight (kg/lb.) ories  Specifications  Temperature  Humidity	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing)	Power adapter with plug RJ-45 - RS-232 cable for console connection Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing)
invironmental S perating	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing)  -30°C to 70°C/-22°F to 158°F	Power adapter with plug RJ-45 - RS-232 cable for console connection Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F
Environmental S Departing Storage MTBF (hr)	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing)  -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)	Power adapter with plug RJ-45 - RS-232 cable for console connection Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)
Environmental S Departing Storage MTBF (hr) Dertifications	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing)  -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)	Power adapter with plug RJ-45 - RS-232 cable for console connection Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  766,228.2  FCC Part 15 (Class B), CE EMC (Class B),
environmental S Derating Storage ATBF (hr) Dertifications	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  989,810.8  FCC Part 15 (Class B), CE EMC (Class B), BSMI	Power adapter with plug RJ-45 - RS-232 cable for console connectie Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  766,228.2  FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI
Environmental S Derating Storage MTBF (hr) Dertifications EMC	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing)  -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  989,810.8	Power adapter with plug RJ-45 - RS-232 cable for console connection Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  766,228.2  FCC Part 15 (Class B), CE EMC (Class B),
	Weight (kg/lb.) ories Specifications Temperature Humidity Temperature Humidity	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  989,810.8  FCC Part 15 (Class B), CE EMC (Class B), BSMI  LVD (EN60950-1), BSMI  *5: Maximum sessions measured usin	Power adapter with plug RJ-45 - RS-232 cable for console connectie Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing) 766,228.2  FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI  LVD (EN60950-1), BSMI  g the industry standard IXIA IxLoad testing tool.
environmental S Derating Storage MTBF (hr) Dertifications EMC Safety : This matrix with f 1: Actual performa	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature Humidity  iirmware ZLD5.37 or later. ance may vary depending on system configuration, netw	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  989,810.8  FCC Part 15 (Class B), CE EMC (Class B), BSMI  LVD (EN60950-1), BSMI  *5: Maximum sessions measured using ork conditions, *6: including Gateway-to-Gateway a	Power adapter with plug RJ-45 - RS-232 cable for console connection Antenna  O°C to 40°C/32°F to 104°F 10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F 10% to 90% (non-condensing) 766,228.2  FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI LVD (EN60950-1), BSMI In the industry standard IXIA IxLoad testing tool.
Environmental S Departing Storage MTBF (hr) Dertifications EMC Safety : This matrix with f 1. Actual performa and activated ag 2. Maximum through	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature Humidity  Firmware ZLD5.37 or later. Ince may vary depending on system configuration, netwo polications. Sployub Apple Configuration on the configuration of the configur	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  989,810.8  FCC Part 15 (Class B), CE EMC (Class B), BSMI  LVD (EN60950-1), BSMI  *5: Maximum sessions measured using ork conditions, including Gateway-to-Gateway a "7: With Zyxel service license to enab "8: This is the recommend maximum in the commend maximum in the recommend maximum in the recom	Power adapter with plug RJ-45 - RS-232 cable for console connectie Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing)  766,228.2  FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI LVD (EN60950-1), BSMI  g the industry standard IXIA IxLoad testing tool. and Client-to-Gateway.  le or extend the feature capacity. number of concurrent logged-in devices.
Environmental S Derating Storage WTBF (hr) Certifications EMC Safety : This matrix with f :: Actual performa and activated ap :: Maximum throus 3: VPN throughput	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature Humidity  iirmware ZLD5.37 or later. since may vary depending on system configuration, netwood polications. ghout based on RFC 2544 (1,518-byte UDP packets). t measurement are based on RFC 2544 (1,424-byte UDP	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing) 989,810.8  FCC Part 15 (Class B), CE EMC (Class B), BSMI  LVD (EN60950-1), BSMI  V5: Maximum sessions measured using ork conditions,  *6: including Gateway-to-Gateway and to the condensing of the condensing ork conditions,  *7: With Zyxel service license to enable to enabl	Power adapter with plug RJ-45 - RS-232 cable for console connection Antenna  O°C to 40°C/32°F to 104°F 10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F 10% to 90% (non-condensing) 766,228.2  FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI LVD (EN60950-1), BSMI In the industry standard IXIA IxLoad testing tool. In Client-to-Gateway. It is concurrent logged-in devices. It is esupport. It is connected to the standard in
Environmental S Derating Storage WTBF (hr) Certifications EMC Safety : This matrix with f :: Actual performa and activated ap :: Maximum throus 3: VPN throughput	Weight (kg/lb.) ories  Specifications Temperature Humidity Temperature Humidity  Firmware ZLD5.37 or later. Ince may vary depending on system configuration, netwo polications. Sployub Apple Configuration on the configuration of the configur	Power adapter RJ-45 - RS-232 cable for console connection  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing) 989,810.8  FCC Part 15 (Class B), CE EMC (Class B), BSMI  LVD (EN60950-1), BSMI  V5: Maximum sessions measured using ork conditions,  *6: including Gateway-to-Gateway and to the condensing of the condensing ork conditions,  *7: With Zyxel service license to enable to enabl	Power adapter with plug RJ-45 - RS-232 cable for console connecti Antenna  O°C to 40°C/32°F to 104°F  10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F  10% to 90% (non-condensing) 766,228.2  FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI  LVD (EN60950-1), BSMI  ag the industry standard IXIA IxLoad testing tool. Ind Client-to-Gateway. Is or extend the feature capacity, number of concurrent logged-in devices. Is support. In the support of the support of the support of the support. In the support of the

- This matrix with firmware ZLD5.37 or later.
   Actual performance may vary depending on system configuration, network conditions, and activated applications.
   Maximum throughput based on RFC 2544 (1,518-byte UDP packets).
   YPN throughput measurement are based on RFC 2544 (1,424-byte UDP packets); IMIX: UDP throughput based on a combination of 64 byte, 512 byte, and 1424 byte packet sizes.
- packet sizes.

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

### 7. WALL LICO ELEV Eigengelle

Model		USG FLEX 200	USG FLEX 500	USG FLEX 700
Hardware Spec	ifications			
10/100/1000 Mb	ops RJ-45 ports	$4 \times LAN/DMZ$ , $2 \times WAN$ , $1 \times SFP$	7 (configurable), 1 x SFP (configurable)	12 (configurable), 2 x SFP (configurable)
USB 3.0 ports		2	2	2
Console port		Yes (DB9)	Yes (DB9)	Yes (DB9)
Rack-mountab	le	Yes	Yes	Yes
Fanless		Yes	N/A	N/A
	ty & Performance <sup>1</sup>	1000	0.000	5.400
VPN throughpu	oughput (Mbps)*2	1,800 450	2,300 810	5,400 1,100
VPN IMIX through		160	240	550
IPS throughput	* ' '	1,100	1,500	2,000
	hroughput (Mbps)*4	570	800	1,450
	rt (Anti-Malware and IPS)(Mbps)*4	550	800	1,350
	urrent sessions*5 gateway-to-gateway IPsec VPN tunnels	600,000 50	1,000,000 150	1,600,000 250
	it IPsec VPN tunnels*6	100	300	500
Concurrent SSL		60	150	150
VLAN interface		16	64	128
Speedtest Perfo				
	oughput (Mbps)*11	931	935	934
Key Features Security	Sandboxing* <sup>7</sup>	Yes	Yes	Yes
Service	Web Filtering*7	Yes	Yes	Yes
	Application Patrol*7	Yes	Yes	Yes
	Anti-Malware*7	Yes	Yes	Yes
	IPS*7	Yes	Yes	Yes
	Reputation Filter*7  Geo Enforcer*7	Yes Yes	Yes Yes	Yes Yes
	SecuReporter*7	Yes	Yes	Yes
	Collaborative Detection & Response*7	Yes	Yes	Yes
	Device Insight	Yes	Yes	Yes
	Security Profile Sync*7	Yes	Yes	Yes
	SSL (HTTPS) Inspection	Yes	Yes	Yes
	Two-Factor Authentication	Yes	Yes	Yes
VPN	Email Security VPN	Yes IKEv2, IPSec, SSL, L2TP/IPSec	Yes IKEv2, IPSec, SSL, L2TP/IPSec	Yes IKEv2, IPSec, SSL, L2TP/IPSec
Features	Microsoft Azure	Yes	N/A	N/A
	Amazon VPC	Yes	Yes	Yes
WLAN	Default Number of Managed AP	8	8	8
Management	Recommend Max. AP in 1 AP Group	20	60	200
	Secure WiFi Service*7  Maximum Number of Tunnel-Mode AP	Yes 10	Yes 18	Yes 130
	Maximum Number of Tunnel-Mode AP  Maximum Number of Managed AP	40	72	520
Management &	Nebula Cloud Mode	Yes	Yes	Yes
Connectivity	Nebula Cloud Monitoring Mode	Yes	Yes	Yes
	Device HA Pro	N/A	Yes	Yes
	Link Aggregation (LAG)	N/A	Yes	Yes
	Hotspot Management*7  Ticket Printer Support*9/Support Q'ty (max.)	Yes (CD2FOF)//O	Yes (SP350E)/10	Yes (SP350E)/10
	Concurrent Devices Logins (default/max.)*7*8		200/300	500/2000
Power Requiren	-	200	200,000	000/2000
Power input		12 V DC, 2.5 A max.	12 V DC, 4.17 A	100-240 V AC, 50/60 Hz, 2.5 A m
	sumption (watt Max.)	13.3	24.1	46
Heat dissipation		45.38	82.23	120.1
Physical Specif		272 v 197 v 26/10 7 v 7 26 v 1 42	200 × 100 × 44/16 02 × 7.4 × 1.72	420 × 250 × 44/16 02 × 0.84 × 1
Item	Dimensions (WxDxH)(mm/in.) Weight (Kg/lb.)	272 x 187 x 36/10.7 x 7.36 x 1.42 1.4/3.09	300 x 188 x 44/16.93 x 7.4 x 1.73 1.65/3.64	430 x 250 x 44/16.93 x 9.84 x 1 3.3/7.28
Packing	Dimensions (WxDxH)(mm/in.)	427 x 247 x 73/16.81 x 9.72 x 2.87	351 x 152 x 245/13.82 x 5.98 x 9.65	
-	Weight (kg/lb.)	2.23 (W/O bracket)	2.83/6.24	4.8/10.58
Included access	novino	2.42 (W/ bracket)	- Dower adapte:	- Dower cond
		Power adapter     Rack mounting kit	<ul><li>Power adapter</li><li>Power cord</li><li>Rack mounting kit</li></ul>	Power cord     Rack mounting kit
Environmental:		000+- 4000/0005+ 40405	000 +- 4000/0005 + 40405	000+- 4000/0005+ 40405
Operating	Temperature Humidity	0°C to 40°C/32°F to 104°F 10% to 90% (non-condensing)	0°C to 40°C/32°F to 104°F 10% to 90% (non-condensing)	0°C to 40°C/32°F to 104°F 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
3-	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing
MTBF (hr)		529,688.2	529,688.2	947,736
Acoustic Noise		N/A	24.5 dBA on < 25°C operating	24.5 dBA on < 25°C operating
			temperature, 41.5 dBA on full FAN speed	temperature, 41.5 dBA on full FAN speed
0 .:0 .:				
Certifications				
EMC		FCC Part 15 (Class B), CE EMC	FCC Part 15 (Class A), CE EMC II (Class A), C-Tick (Class A), BSMI	

\*: This matrix with firmware ZLD5.37 or later.

\*: Actual performance may vary depending on system configuration, network conditions, and activated applications.

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

\*3: VPN throughput measurement are based on RFC 2544 (1,424-byte UDP packets); IMIX: UDP throughput based on a combination of 64 byte, 512 byte, and 1424 byte packet sizes.

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

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

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

\*7: With Zyxel service license to enable or extend the feature capacity.

\*8: This is the recommend maximum number of concurrent logged-in devices.

\*9: With Hotspot Management license support.

\*10: The Speedtest result is conducted with 1 Gbps WAN link in real world and it is subject to fluctuate due to quality of the ISP link.

\*11: USG FLEX 100 rev1 is adopting a new hardware design equipped with 4 x LAN/DMZ, 1 x WAN.

16 Solution Guide Security

### SCR

Model		SCR 50AXE
Hardware Sp	pecifications	
	Decincutions	Purchaser 100 Olds October 150
CPU		Dual-core, 1.00 GHz, Cortex A53
RAM/FLASH		1 GB/256 MB
10/100/1000	Mbps RJ-45 ports	(1) WAN: 1 GbE RJ-45 port (4) LAN: 1 GbE RJ-45 ports
Fanless		Yes
	noite: C Doufermanne	165
	acity & Performance	000
	hroughput LAN to WAN (Mbps)	900
	t ON/App mgmt OFF (Mbps)	900
Wireless Spe		
Standard co	mpliance	IEEE 802.11 ax 6 GHz IEEE 802.11 ax/ac/n/a 5 GHz IEEE 802.11 ax/n/b/g 2.4 GHz
Wireless secu	urity	WPA2-PSK, WPA3-PSK
Wireless freq	juency	2.4/5/6 GHz
Radio		3
SSID number	,	4
WPS		Yes
No. of antenr	na	4 (internal)
Antenna gair		2.0 dBi @2.4 GHz 3.0 dBi @5 GHz 3.5 dBi @6 GHz
Data rate		2.4 GHz: up to 575 Mbps
Data rate		5 GHz: up to 2400 Mbps
		6 GHz: up to 2400 Mbps
Security Fea	tures	
Ransomware	e/Malware Prevention	Yes
Intrusion Blo	cker	Yes
Dark Web Blo	ocker	Yes
Stop Mail Fro	aud & Phishing	Yes
Block Ads		Yes
Block VPN Pi	roxy	Yes
Content Filte	•	Yes
Firewall	<u>*</u>	Yes
	triction (GeoIP)	Yes
Country Restriction (GeoIP)  Exception List		Yes
		Yes
Custom Allowed/Blocked Domain Traffic Management (Applications & Clients)		
	*	Yes
Security Eve	•	Threat Management Report
VPN Feature		
Site2site VPN	N	IPSec (site-to-site, spoke only)
Networking		
WAN type		DHCP/Static IP/PPPoE/PPPoE with static IP
Networking f	features	NAT - Virtual server DHCP IP/MAC binding
		Block clients Guest network**
IPTV passthr	rough	Block clients Guest network**
IPTV passthr		Block clients
Managemen	t	Block clients Guest network**  IGMP Proxy
Management Site-wide SS	t ID management	Block clients Guest network**  IGMP Proxy  Nebula
Management Site-wide SS Multi-site mo	t ID management	Block clients Guest network**  IGMP Proxy  Nebula Nebula
Management Site-wide SS Multi-site mo Topology*	t ID management	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula
Site-wide SS Multi-site mo Topology* Diagnostics	t ID management anagement	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes
Site-wide SS Multi-site mo Topology* Diagnostics Remote supp	t ID management anagement port**	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes
Management Site-wide SS Multi-site ma Topology* Diagnostics Remote supp Onboarding	t ID management anagement  port** WAN setting method	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes
Management Site-wide SS Multi-site ma Topology* Diagnostics Remote supp Onboarding of	t ID management anagement  port** WAN setting method rements	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding to Power Require Power input	t ID management anagement  port** WAN setting method rements	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes WiFi
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding Power Requir Power input Max. power of	ID management anagement cort** WAN setting method rements consumption (watt max.)	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding to Power Require Power input Max. power of Physical Spe	ID management anagement  cort** WAN setting method rements consumption (watt max.) cifications	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding Power Requir Power input Max. power of	ID management anagement  cort**  WAN setting method rements  consumption (watt max.) cifications  Dimensions (WxDxH)(mm/in.)	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes Vifi  12 V DC, 2.0 A 21 W  178.0 x 54.6 (stand 68.2) x 242.2/7.00 x 2.14 (stand 2.68) x 9.54
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding of Power Require Power input Max. power of Physical Speltem	ID management anagement  cort**  WAN setting method rements  consumption (watt max.) cifications  Dimensions (WxDxH)(mm/in.) Weight (g/lb.)	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding of Power Require Power input Max. power of Physical Speltem	t ID management anagement  cort** WAN setting method rements consumption (watt max.) cifications Dimensions (WxDxH)(mm/in.) Weight (g/lb.) tal Specifications	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W  178.0 x 54.6 (stand 68.2) x 242.2/7.00 x 2.14 (stand 2.68) x 9.54 651/1.44 (with stand)
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding of Power Require Power input Max. power of Physical Speltem	ID management  anagement  cort**  WAN setting method rements  consumption (watt max.)  cifications  Dimensions (WxDxH)(mm/in.)  Weight (g/lb.)  cal Specifications  Temperature	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W  178.0 x 54.6 (stand 68.2) x 242.2/7.00 x 2.14 (stand 2.68) x 9.54 651/1.44 (with stand)  0°C to 40°C/32°F to 104°F
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding of Power Require Power input Max. power of Physical Speltem	t ID management anagement  cort** WAN setting method rements consumption (watt max.) cifications Dimensions (WxDxH)(mm/in.) Weight (g/lb.) tal Specifications	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W  178.0 x 54.6 (stand 68.2) x 242.2/7.00 x 2.14 (stand 2.68) x 9.54 651/1.44 (with stand)
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding of Power Require Power input Max. power of Physical Speltem	ID management  anagement  cort**  WAN setting method rements  consumption (watt max.)  cifications  Dimensions (WxDxH)(mm/in.)  Weight (g/lb.)  cal Specifications  Temperature	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W  178.0 x 54.6 (stand 68.2) x 242.2/7.00 x 2.14 (stand 2.68) x 9.54 651/1.44 (with stand)  0°C to 40°C/32°F to 104°F
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding Power Requit Max. power of Physical Spettern Environment Operating	ID management  anagement  boort**  WAN setting method rements  consumption (watt max.)  cifications  Dimensions (WxDxH)(mm/in.)  Weight (g/lb.)  cal Specifications  Temperature Humidity	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W  178.0 x 54.6 (stand 68.2) x 242.2/7.00 x 2.14 (stand 2.68) x 9.54 651/1.44 (with stand)  0°C to 40°C/32°F to 104°F 10% to 90% (non-condensing)
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding Power Requit Max. power of Physical Spettern Environment Operating	t ID management anagement  cort** WAN setting method rements consumption (watt max.) cifications Dimensions (WxDxH)(mm/in.) Weight (g/lb.) cal Specifications Temperature Humidity Temperature Humidity Humidity	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W  178.0 x 54.6 (stand 68.2) x 242.2/700 x 2.14 (stand 2.68) x 9.54 651/1.44 (with stand)  0°C to 40°C/32°F to 104°F 10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F
Management Site-wide SS Multi-site mo Topology* Diagnostics Remote supp Onboarding Power Requir Power input Max. power of Physical Speltem Environment Operating Storage	t ID management anagement  cort** WAN setting method rements consumption (watt max.) cifications Dimensions (WxDxH)(mm/in.) Weight (g/lb.) cal Specifications Temperature Humidity Temperature Humidity Is	Block clients Guest network**  IGMP Proxy  Nebula Nebula Nebula Yes Yes Yes WiFi  12 V DC, 2.0 A 21 W  178.0 x 54.6 (stand 68.2) x 242.2/700 x 2.14 (stand 2.68) x 9.54 651/1.44 (with stand)  0°C to 40°C/32°F to 104°F 10% to 90% (non-condensing) -30°C to 70°C/-22°F to 158°F

<sup>\*:</sup> Requiring SCR Pro Pack license. \*\*: Available in Q3 2023.

## **Wireless Specifications**

Model	ZyWALL USG FLEX Firewalls		SCR
	USG FLEX 50AX	USG FLEX100AX	SCR 50AXE
Standard compliance	802.11 ax/ac/n/g/b/a	802.11 ax/ac/n/g/b/a	802.11 ax/ac/n/g/b/a
Wireless frequency	2.4/5 GHz	2.4/5 GHz	2.4/5/6 GHz
Radio	2	2	3
SSID number	4	4	4
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz: 29.8 dBm, 2 antennas US (FCC) 5 GHz: 32.6 dBm, 2 antennas EU (ETSI) 2.4 GHz: 19.93 dBm (EIRP), 2 antennas EU (ETSI) 5 GHz: 22.99 dBm (EIRP), 2 antennas	US (FCC) 2.4 GHz: 29.8 dBm, 2 antennas US (FCC) 5 GHz: 32.6 dBm, 2 antennas EU (ETSI) 2.4 GHz: 19.93 dBm (EIRP), 2 antennas EU (ETSI) 5 GHz: 22.99 dBm (EIRP), 2 antennas	US (FCC) 2.4 GHz: 26.5 dBm, 2 antennas  US (FCC) 5 GHz: 29.5 dBm, 2 antennas  US (FCC) 6 GHz: 24.5 dBm, 2 antennas  EU (ETSI) 2.4 GHz: 19.31 dBm (EIRP), 2 antennas  EU (ETSI) 5 GHz: 25.24 dBm (EIRP), 2 antennas  EU (ETSI) 6 GHz: 22.26 dBm (EIRP), 2 antennas
No. of antenna	2 detachable antennas	2 detachable antennas	4 internal antennas
Antenna gain	3 dBi @2.4 GHz/5 GHz	3 dBi @2.4 GHz/5 GHz	2 dBi @2.4 GHz 3 dBi @5 GHz 3.5 dBi @6 GHz
Data rate	<ul><li>2.4 GHz: up to 600 Mbps</li><li>5 GHz: up to 1200 Mbps</li></ul>	<ul><li>2.4 GHz: up to 600 Mbps</li><li>5 GHz: up to 1200 Mbps</li></ul>	<ul><li>2.4 GHz: up to 575 Mbps</li><li>5 GHz: up to 2400 Mbps</li><li>6 GHz: up to 2400 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/ac/ax)  • USA (FCC): 5.150 to 5.250 GHz; 5.725 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; 5.725 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  5 GHz (IEEE 802.11 a/n/ac)  • USA (FCC): 5.150 to 5.250 GHz; 5.725 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; 5.725 to 5.850 GHz	2.4 GHz (IEEE 802.11 b/g/n/ax)  • 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/ax)  • USA (FCC): 5.150 to 5.250 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz; 5.725 to 5.850 GHz  • European (ETSI): 5.150 to 5.250 GHz; 5.250 to 5.350 GHz  • TWN (NCC): 5.150 to 5.250 GHz; 5.725 to 5.850 GHz  5.470 to 5.725 GHz; 5.725 to 5.850 GHz
			6 GHz (IEEE 802.11 ax) • USA (FCC): 5.925 to 7.125 GHz • European (ETSI): 5.925 to 6.425 GHz
Receive sensitivity	2.4 GHz:  • 11 Mbps ≤ -99 dBm  • 54 Mbps ≤ -95 dBm  • HT20, MCS7 ≤ -90 dBm  • HT40, MCS7 ≤ -86 dBm  5 GHz:  • 54 Mbps ≤ -90 dBm  • HT20, MCS7 ≤ -85 dBm  • HT40, MCS7 ≤ -81 dBm  • VHT20, MCS8 ≤ -90 dBm +/-2 dBm  • VHT40, MCS9 ≤ -85 dBm +/-2 dBm  • VHT40, MCS9 ≤ -86 dBm +/-2 dBm  • HE40, MCS11 ≤ -61 dBm +/-2 dBm  • HE40, MCS11 ≤ -58 dBm +/-2 dBm  • HE80, MCS11 ≤ -58 dBm +/-2 dBm	2.4 GHz:  • 11 Mbps ≤ -99 dBm  • 54 Mbps ≤ -95 dBm  • HT20, MCS7 ≤ -90 dBm  • HT40, MCS7 ≤ -86 dBm  5 GHz:  • 54 Mbps ≤ -90 dBm  • HT20, MCS7 ≤ -85 dBm  • HT40, MCS7 ≤ -81 dBm  • VHT20, MCS8 ≤ -90 dBm +/-2 dBm  • VHT20, MCS8 ≤ -90 dBm +/-2 dBm  • VHT80, MCS9 ≤ -68 dBm +/-2 dBm  • VHT80, MCS1 ≤ -61 dBm +/-2 dBm  • HE40, MCS11 ≤ -58 dBm +/-2 dBm  • HE40, MCS11 ≤ -55 dBm +/-2 dBm	2.4 GHz:  •11 Mbps ≤ -82 dBm  •54 Mbps ≤ -69 dBm  •HT20, MCS7 ≤ -68 dBm  •HT40, MCS7 ≤ -67 dBm  •VHT20, MCS8 ≤ -64 dBm +/- 2 dBm  •VHT40, MCS9 ≤ -62 dBm +/- 2 dBm  •VHT40, MCS11 ≤ -58 dBm +/- 2 dBm  •HE40, MCS11 ≤ -55 dBm +/- 2 dBm  •HE40, MCS11 ≤ -55 dBm +/- 2 dBm  •HT20, MCS7 ≤ -71 dBm  •HT20, MCS7 ≤ -71 dBm  •HT20, MCS7 ≤ -68 dBm  •VHT20, MCS7 ≤ -68 dBm  •VHT20, MCS9 ≤ -62 dBm +/- 2 dBm  •VHT40, MCS9 ≤ -62 dBm +/- 2 dBm  •VHT40, MCS9 ≤ -55 dBm +/- 2 dBm  •HE40, MCS11 ≤ -60 dBm +/- 2 dBm  •HE40, MCS11 ≤ -55 dBm +/- 2 dBm  •HE80, MCS11 ≤ -55 dBm +/- 2 dBm  •HE80, MCS11 ≤ -55 dBm +/- 2 dBm  •HE80, MCS11 ≤ -56 dBm +/- 2 dBm  •HE40, MCS11 ≤ -58 dBm +/- 2 dBm

## **Compatibility & Accessories**

#### **Access Point**

Product	Unified AP		Unified Pro AP	
Models	<ul> <li>NWA5123-AC</li> <li>NWA5123-AC HD*</li> <li>WAC5302D-S</li> <li>WAC5302D-Sv2</li> </ul>	<ul><li>WAX510D*</li><li>WAC500*</li><li>WAC500H*</li><li>WAX300H</li></ul>	<ul> <li>WAC6103D-I</li> <li>WAC6303D-S</li> <li>WAC6502D-E</li> <li>WAC6502D-S</li> <li>WAC6503D-S</li> <li>WAC6552D-S</li> <li>WAC6553D-E</li> </ul>	<ul> <li>WAX650S*</li> <li>WAX610D</li> <li>WAX630S</li> <li>WAX640S-6E</li> <li>WAX620D-6E</li> <li>WAX655E</li> </ul>
Functions				
Central management	Yes		Yes	
Auto provisioning	Yes		Yes	
Data forwarding	Local bridge		Local bridge/Data t	unnel
ZyMesh	Yes		Yes	
*: Support both local bridge	and data tunnel for data for	rwardina		

#### **Service Gateway Printer**

Model	Feature	Supported Model	
SP350E	<ul> <li>Buttons: 3</li> <li>Paper roll width: 58 (+0/-1) mm</li> <li>Interface: 10/100 Mbps RJ-45 port</li> <li>Power input: 12 V DC, 5 A max.</li> <li>Item dimensions (WxDxH): 176 x 111 x 114 mm (6.93" x 4.37" x 4.49")</li> <li>Item weight: 0.8 kg (1.76 lb.)</li> </ul>	• USG FLEX 200 • USG FLEX 500 • USG FLEX 700 • VPN50 • VPN100 • VPN300 • VPN1000	<ul> <li>USG60(W)</li> <li>USG110</li> <li>USG210</li> <li>USG310</li> <li>USG1100</li> <li>USG1900</li> <li>USG2200 Series</li> <li>ZyWALL 110</li> <li>ZyWALL 310</li> <li>ZyWALL 1100</li> </ul>

<sup>1:</sup> Hotspot management licenses required

#### **Transceivers (Optional)**

Model	Speed	Connector	Wavelength	Max. Distance	Optical Fiber Type	DDMI
SFP10G-SR*	10-Gigabit SFP+	Duplex LC	850 nm	300 m/328 yd	Multi Mode	Yes
SFP10G-LR*	10-Gigabit SFP+	Duplex LC	1310 nm	10 km/10936 yd	Single Mode	Yes
SFP-1000T	Gigabit	RJ-45	-	100 m/109 yd	Multi Mode	-
SFP-LX-10-D	Gigabit	Single LC	1310 nm	10 km/10936 yd	Single Mode	Yes
SFP-SX-D	Gigabit	Single LC	850 nm	550 m/601 yd	Multi Mode	Yes
SFP-BX1310-10-D*1	Gigabit	Single LC	1310 nm (TX) 1490 nm (RX)	10 km/10936 yd	Single Mode	Yes
SFP-BX1490-10-D*1	Gigabit	Single LC	1490 nm (TX) 1310 nm (RX)	10 km/10936 yd	Single Mode	Yes

<sup>\*:</sup> Only USG2200-VPN supports 10-Gigabit SFP+

# **VPN Client Subscription**

Item	Description	Supported OS
SecuExtender Zero Trust IPSec/SSL VPN Client Subscription*	SecuExtender supports popular VPN protocols including IKEv2/EAP, SSL VPN. Building secure tunnel with industry-leading strong cipher, the SecuExtender guarantees your confidentiality and data integrity.	<ul> <li>Windows 10 64-bit</li> <li>Windows 11 64-bit</li> <li>macOS 10.15 or above</li> </ul>

<sup>\*:</sup> One subscription license to activate IPSec or SSL VPN from selected OS Windows/macOS.

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<sup>\*1:</sup> SFP-BX1310-10-D and SFP-BX1490-10-D are must used in pairs.



