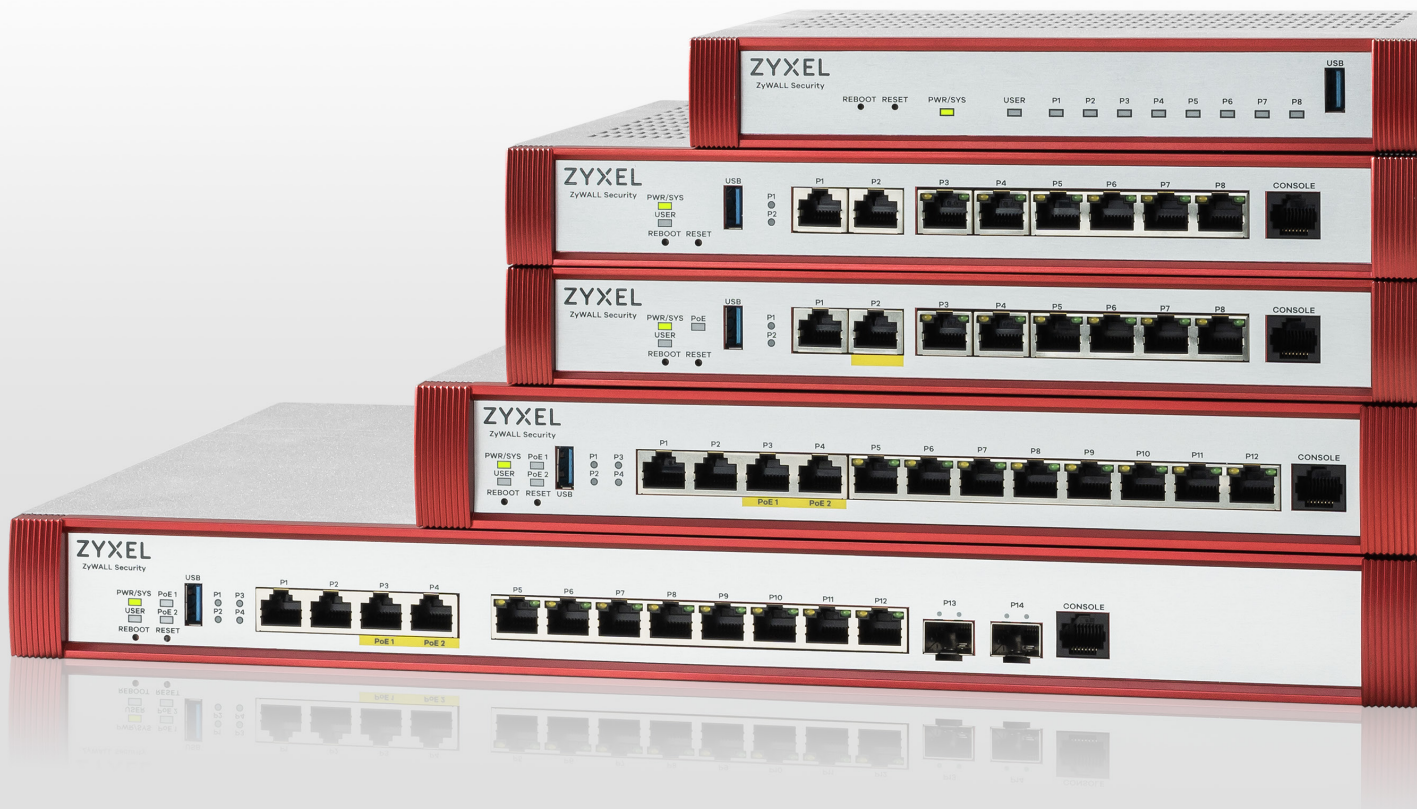




Simplify and Strengthen Your Security

Security Solution Guide

Simplify and strengthen your security

How safe is your network?

In today’s digital landscape, ransomware remains one of the most damaging cyber threats. Recent studies show that over 50% of ransomware attacks are aimed at businesses with 11 to 200 employees*, placing small and medium-sized businesses (SMBs) directly in the crosshairs of cybercriminals. The rise of generative AI has only made things worse—enabling attackers to automate, personalize, and scale their ransomware campaigns like never before. That’s why network protection must be simple, scalable, and smart enough to keep pace with this rapidly evolving threat.

*Source: <https://www.stationx.net/ransomware-statistics/>

Smart and unified protection

Zyxel Security helps small and medium-sized businesses defend against more than just ransomware and other cyber threats—it safeguards users, devices, applications, and data across the network. From real-time threat detection to automatic response, it simplifies cybersecurity without compromising protection. Unlike traditional firewalls, the USG FLEX H series brings cloud and on-premises security together through our Smart Sync technology, allowing policies, objects, and availability settings to stay aligned across locations. This unified approach eliminates complexity and ensures your network is always ready to scale and evolve.

Cloud & on-prem in sync.

USG FLEX H SERIES



Zyxel security solutions

Security Firewall/Router

Zyxel’s next-generation firewalls deliver the performance, visibility, and multi-layered protection SMBs need at the network edge. The USG FLEX H series offers 3× faster UTM throughput, PoE+, and AI-powered defense—ready for the multi-G era. For smaller sites, the USG LITE series combines business-grade firewall, VPN, and WiFi into a cloud-managed, license-free solution ideal for easy, secure deployment.

Security Service & License

Zyxel’s flexible licensing services go beyond just activation—we unlock AI-driven threat detection, app control, content filtering, and detailed reporting. Whether you’re managing users, applications, or multiple sites, our security packs scale with your needs. With our Circle platform and e-commerce tools, licensing and subscriptions stay simple, helping you deploy smarter protections—fast, focused, and future-ready.

Nebula Cloud Management

Zyxel’s Nebula platform lets you deploy and manage security appliances remotely—no on-site IT required. With Smart Sync, it unifies cloud and on-premises configurations by syncing policies, objects, and HA settings. This ensures consistent protection across locations, eliminates manual duplication, and gives you full visibility and control from a single pane of glass.

Reporting & Analytics

Easily switch from Nebula’s overview to SecuReporter for deeper insights into your network’s security posture. With SecuPilot, you can ask questions in plain language, get AI-generated summaries, and create clear visual reports—no cybersecurity expertise required. It’s the easiest way to stay informed and act fast

Secure Remote Working

Zyxel offers a full range of VPN solutions to support safe, flexible remote access. From IPSec and SSL to native L2TP and our support for Tailscale Mesh-VPN, we make it easy to connect remote offices, teleworkers, and mobile users. With Nebula, VPN setup and user access can be deployed and managed at scale—secured with two-factor authentication and centralized policies for peace of mind.

AI-Powered Threat Intelligence

Zyxel firewalls connect to a global threat intelligence network, syncing daily to defend against emerging attacks. Cloud-based AI and machine learning analyze malware patterns in real time, combining cloud and on-device insights. This unified ecosystem empowers Zyxel firewalls to detect and block threats faster—with protection that keeps learning.

Find the ideal appliance for your business

	Ultimate H	Ultimate	Flexibility	Effortless
Users	USG FLEX H	ATP	USG FLEX	USG LITE
Up to 500		 ATP800		
Up to 350	USG FLEX 700H	 ATP700	 USG FLEX 700	
Up to 150	 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 10	 USG FLEX 50H USG FLEX 50HP		 USG FLEX 50 USG FLEX 50AX	
Up to 5				 USG LITE 60AX SCR 50AXE

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 • IP reputation filter provides low latency reaction • Support black/white listing for custom policies • 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 attacks from network • Shields vulnerabilities before they can be exploited and eliminates the operational pains of emergency patching • Customized signature support to create your own rules • Constant signature auto-updates
Application Patrol 	Automatically categorize and manage the network applications usage • Granular policies control by IP address, user, group, schedule • Profile based policy to ensure network quality and easy manage business 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 • IPv6 address support • Automatic IP/geography database update

Services	Key Features
Security Service	
Sandboxing 	Cloud-based sandbox technology against unknown threats • Comprehensive inspection for a wide range file types • Cloud-based sandbox provide instant protection without needing a dedicated hardware or software upgrade
Reputation Filter 	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
Secure WiFi 	• Secure tunnel and managed AP service • L2 access between home and office network • Enforcing 2FA with Google Authenticator • WPA2 Enterprise (802.1x) supported
Cloud Security Service	
Astra 	• Cloud-based service and email protection for Office 365, G Suite and on-premise e-mail • Stop unwanted spam, phishing and malware with real-time threat intelligence • No change to your existing infrastructure, zero maintenance • Reduce management overhead and stop wasting IT admin resources • Respond faster with web management and monitoring
Vertical Solutions	
Hotspot Management 	• Authentication with Wall Garden • Advertisement and SMS billing & free time service accounting for guest • Support SP350E printer manager support purple WiFi and third-party social log in • Billing replenishment

Services	Key Features
Vertical Solutions	
Managed AP Service 	• Integrated AP controller as central management to provide flexible deployment options • AP auto discovery and provisioning • AP forwarding compatibility • Supports 8 APs per firewall by default
Device High Availability Pro 	• Device failure detection and notification • Configuration auto-sync and link monitoring • Smart handover through dedicated Heartbeat Link • NAT/Firewall/VPN Sessions synchronization
VPN Client Software	
SecuExtender VPN Client 	• Secure and reliable remote access, preserving business operations and data integrity • Supports both IPSec/SSL VPN and secure authentication methods • Simple to deploy with remote VPN wizard (IKEv2 preferred) • Runs on both Windows and macOS operating systems
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 • SecuPilot AI-powered insights for unmatched network visibility • 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										Connectivity			
Pack	Firewall Series	Licensed Service										Licensed Service			
		Anti-Malware/ Virus	Web Filtering/ Content Filtering*4	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	Nebula Professional Pack
															
		Scan files at the gateway for viruses and other threats	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	An easy-to-use tool to help business sync up security profiles across multiple networks	Automatically contain threats at the network edge	Real-time updated threat intelligence	Simplified single sign in to multiple resources	Secure tunnel and managed AP service	A full feature set of cloud configuration, deployment, moniing and management
Gold Security Pack	USG FLEX H*2	●	●	●	●	●	●	●	●	●	●		●	●*5	●
	ATP	●	●	●	●	●	●	●	●	●	●		●	●	●
	USG FLEX*1	●	●	●	●	●	●	●	●	●	●		●	●	●
UTM Security Pack	USG FLEX*1	●	●			●	●	●	●	●	●		●		
Entry Defense Pack	USG FLEX H				●				●						●*3 (Priority Support only)
Content Filter Pack	USG FLEX 50(AX)		●						●	●			●		
	USG20(W)-VPN		●						●	●			●		
Elite Pack	USG LITE SCR		●						● (Traffic Log Archiving only)			●			●

*1: USG FLEX 50(AX) is not supported for Gold and UTM Security Pack
*2: Network Premium, Collaborative Detection & Response, and Secure WiFi for USG FLEX H series will be available later and are subject to changes without notice.
*3: Priority Support is available to customers with a Pro Pack organization or those using USG FLEX H series firewalls with Gold Security Pack or Entry Defense Pack licenses. Eligible customers can open support tickets for prioritized assistance.
*4: URL Threat Filter is included and automatically available when Web Filtering is activated.
*5: The tunnel mode and Remote AP will be available in Q3 2026.

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
											
	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 50H(P)/100H(P)/200H(P)/500H/700H*1	•	•	•	•	•	•		•	•	•	•
ATP100(W)/200	•	•	•	•	•	•	•	•	•	•	•
ATP500/700/800	•	•	•	•	•	•	•	•	•	•	•
USG FLEX 50(AX)	•					•		•			•
USG FLEX 100(AX/W)	•	•	•	•	•	•	•	•	•	•	•
USG FLEX 200	•	•	•	•	•	•	•	•	•	•	•
USG FLEX 500/700	•	•	•	•	•	•	•	•	•	•	•
USG LITE 60AX	•	•									
SCR 50AXE	•	•									

Connectivity

Compatible Security Appliances	Licensed Service						Default Support for Registered Devices											
	Secure WiFi	Network Premium	Hotspot Management	Concurrent Device Upgrade	Nebula Professional Pack	Nebula Plus Pack	Amazon VPC	Microsoft Azure	Managed AP Service	Two-Factor Authentication	Threat Management	Geo Enforcer	SSL (HTTPS) Inspection	Device Insight	Device High Availability Pro	Zyxel One Network	Nebula Base Pack	
																		
	Secure tunnel and managed AP service	Simplified single sign in to multiple resources	Various Network Access Control	Top up allowed number of connected clients	A full feature set of cloud configuration, deployment, monitoring and management	A new feature set includes the most frequently requested advanced features	Easy network integration with AWS	Easy network integration with Azure	AP auto discovery and provisioning with default support for managing 8 APs	Add an extra layer of protection to mitigate the risk of credential leakage or brute force attack	Prevent ransomware, intrusion, exploit, dark web, ads, VPN proxy and mail fraud & phishing	Manage network traffic by mapping IP address to geographical regions	Unlock 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 failover	A Unified installation tool for Zyxel switches, WLAN and gateways	License-free feature set with a rich set of management features	
USG FLEX 50H(P)/100H(P)/200H(P)/500H/700H*1	●*2				●	●			●	●		●	●	●	●		●	
ATP100(W)/200	●	●			●		●	●	●	●		●	●	●		●		
ATP500/700/800	●	●			●		●	●	●	●		●	●	●	●	●		
USG FLEX 50(AX)		●			●	●				●		●		●		●	●	
USG FLEX 100(AX/W)	●	●			●	●	●	●	●	●		●	●	●		●	●	
USG FLEX 200	●	●	●		●	●	●	●	●	●		●	●	●		●	●	
USG FLEX 500/700	●	●	●	●	●	●	●	●	●			●	●	●	●	●	●	
USG LITE 60AX					●						●	●				●		
SCR 50AXE					●						●	●						

*1: Network Premium and Collaborative Detection & Response for USG FLEX H series will be available later and are subject to changes without notice.
*2: The tunnel mode and Remote AP will be available in Q3 2026.

Specifications

ZyWALL USG FLEX H Firewalls

Model		USG FLEX 50H/50HP	USG FLEX 100H/100HP	USG FLEX 200H/200HP
Hardware Specifications				
Network interfaces	100M/1G Ethernet (RJ-45)	5	8	6
	100M/1G/2.5G Ethernet (RJ-45)	-	-	2
	1G/2.5G/5G/10G Ethernet (RJ-45)	-	-	-
	1G SFP/10G SFP+	-	-	-
	IEEE 802.3at (PoE+) Port	Port 5 (50HP only)	Port 8 (100HP only)	Port 2 (2.5G, 200HP only)
Total PoE budget (watts)		30	30	30
USB 3.0 Type-A		1	1	1
Console port		Yes (RJ-45)	Yes (RJ-45)	Yes (RJ-45)
Rack-mountable		-	-	Yes
Fanless		Yes	Yes	Yes
System Capacity & Performance ^{*1}				
SPI firewall throughput (Mbps) ^{*2}		2,000	4,000	6,500
VPN throughput (Mbps) ^{*3}		500	900	1,200
IPS throughput (Mbps) ^{*4}		1,000	1,500	2,500
Anti-Malware throughput (Mbps) ^{*4}		600	1,000	1,800
UTM throughput (Anti-Malware and IPS) ^{*4}		600	1,000	1,800
Max. TCP concurrent sessions ^{*5}		100,000	300,000	600,000
Max. concurrent IPsec VPN tunnels ^{*6}		20	50	100
Recommended gateway-to-gateway IPsec VPN tunnels		5	20	50
Concurrent SSL VPN users		15	25	50
VLAN interface		8	16	32
Key Features				
Security Service ^{*7}	Anti-Malware	Yes	Yes	Yes
	IPS	Yes	Yes	Yes
	Application Patrol	Yes	Yes	Yes
	Web Filtering	Yes	Yes	Yes
	Reputation Filter	Yes	Yes	Yes
	SecuReporter	Yes	Yes	Yes
	Sandboxing	Yes	Yes	Yes
	Security Profile Sync	Yes	Yes	Yes
	Device Insign	Yes	Yes	Yes
	SSL (HTTPS) Inspection	Yes	Yes	Yes
	Two-Factor Authentication	Yes	Yes	Yes
SD-WAN & VPN	WAN load balancing	Yes	Yes	Yes
	Prioritize critical applications	Yes	Yes	Yes
	VPN Protocol	IKEv2/IPSec, SSL, Tailscale ^{**}	IKEv2/IPSec, SSL, Tailscale ^{**}	IKEv2/IPSec, SSL, Tailscale ^{**}
	Nebula SD-VPN	Yes	Yes	Yes
	Auto-link VPN	Yes	Yes	Yes
	Manual-link VPN	Yes	Yes	Yes
	VPN Topology	Yes	Yes	Yes
	Default Number of Managed AP	8	8	8
WLAN Management	Secure WiFi ^{*7}	Yes	Yes	Yes
	Maximum Number of Tunnel-Mode AP ^{*9}	3	6	10
	Maximum Number of Managed AP	12	24	40
	Recommend max. AP in 1 AP Group	10	10	20
Management & Connectivity	Nebula Centralized Management	Yes	Yes	Yes
	Device HA	-	-	Yes
	Link Aggregation (LAG)	Yes	Yes	Yes
	Concurrent devices logins (max.) ^{*10}	64	64	200
	Burst login rate (users/30sec)	64	64	200
Physical Specifications				
Item	Dimensions (WxDxH)(mm/in.)	216 x 143 x 33/8.50 x 5.63 x 1.30	216 x 143 x 33/8.50 x 5.63 x 1.30	272 x 185 x 36/10.7 x 7.30 x 1.42
	Weight (kg/lb.)	50H: 1.02/ 2.26 50HP: 1.04/ 2.31	100H: 1.04/2.30 100HP:1.05/2.31	200H: 1.50/3.31 200HP: 1.52/3.35
Packing	Dimensions (WxDxH)(mm/in.)	278 x 189 x 99/10.94 x 7.44 x 3.89	278 x 189 x 99/10.94 x 7.44 x 3.89	427 x 247 x 73/16.81 x 9.72 x 2.87
	Weight (kg/lb.)	50H: 1.27/2.80 50HP: 1.55/3.41	100H: 1.62/3.57 100HP: 1.91/4.21	200H: 2.43/5.36 200HP: 2.68/5.92
Included accessories		• Power adapter • Power cord (50HP only) • RJ-45 - RS-232 cable for console connection	• Power adapter • Power cord (100HP only) • RJ-45 - RS-232 cable for console connection	• Power adapter • Power cord (200HP only) • RJ-45 - RS-232 cable for console connection • Rack mounting kit (optional, by regions)
Certifications				
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 B), CE EMC (Class B), RCM (Class B), BSMI
Safety		LVD (EN62368-1), BSMI	LVD (EN62368-1), BSMI	LVD (EN62368-1), BSMI

*: This matrix with firmware uOS110 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: With Zyxel service license to enable or extend the feature capacity.

*8: Local GUI only.

*9: Available in Q3, 2026

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

ZyWALL USG FLEX H Firewalls

Model		USG FLEX 500H	USG FLEX 700H
Hardware Specifications			
Network interfaces	100M/1G Ethernet (RJ-45)	8	8
	100M/1G/2.5G Ethernet (RJ-45)	4	2
	1G/2.5G/5G/10G Ethernet (RJ-45)	-	2
	1G SFP/10G SFP+	-	2
	IEEE 802.3at (PoE+) Port	Port 3, 4 (2.5G)	Port 3, 4 (10G)
Total PoE budget (watts)		30	30
USB 3.0 Type-A		1	1
Console port		Yes (RJ-45)	Yes (RJ-45)
Rack-mountable		Yes	Yes
Fanless		-	-
System Capacity & Performance ^{*1}			
SPI firewall throughput (Mbps) ^{*2}		10,000	15,000
VPN throughput (Mbps) ^{*3}		2,000	3,000
IPS throughput (Mbps) ^{*4}		4,500	7,000
Anti-Malware throughput (Mbps) ^{*4}		3,000	4,000
UTM throughput (Anti-Malware and IPS) ^{*4}		3,000	4,000
Max. TCP concurrent sessions ^{*5}		1,000,000	2,000,000
Max. concurrent IPsec VPN tunnels ^{*6}		300	1,000
Recommended gateway-to-gateway IPsec VPN tunnels		150	300
Concurrent SSL VPN users		150	500
VLAN interface		64	128
Key Features			
Security Service ^{*7}	Anti-Malware	Yes	Yes
	IPS	Yes	Yes
	Application Patrol	Yes	Yes
	Web Filtering	Yes	Yes
	Reputation Filter	Yes	Yes
	SecuReporter	Yes	Yes
	Sandboxing	Yes	Yes
	Security Profile Sync	Yes	Yes
	Device Insign	Yes	Yes
	SSL (HTTPS) Inspection	Yes	Yes
	Two-Factor Authentication	Yes	Yes
SD-WAN & VPN	WAN load balancing	Yes	Yes
	Prioritize critical applications	Yes	Yes
	VPN Protocol	IKEv2/IPSec, SSL, Tailscale ^{**}	IKEv2/IPSec, SSL, Tailscale ^{**}
	Nebula SD-VPN	Yes	Yes
	Auto-link VPN	Yes	Yes
	Manual-link VPN	Yes	Yes
	VPN Topology	Yes	Yes
	Default Number of Managed AP	8	8
WLAN Management	Secure WiFi ^{*7}	Yes	Yes
	Maximum Number of Tunnel-Mode AP ^{*9}	18	130
	Maximum Number of Managed AP	72	520
	Recommend max. AP in 1 AP Group	60	200
Management & Connectivity	Nebula Centralized Management	Yes	Yes
	Device HA	Yes	Yes
	Link Aggregation (LAG)	Yes	Yes
	Concurrent devices logins (max.) ^{*10}	500	2,000
	Burst login rate (users/30sec)	220	220
Physical Specifications			
Item	Dimensions (WxDxH)(mm/in.)	300 x182 x 43.5/11.81 x 7.17 x 1.71	430 x 250 x 43.5/16.93 x 9.84 x 1.71
	Weight (Kg/lb.)	1.64/3.62	3.14/6.93
Packing	Dimensions (WxDxH)(mm/in.)	350 x 149 x 244/13.78 x 5.87 x 9.61	512 x 395 x 162/20.16 x 15.55 x 6.38
	Weight (kg/lb.)	2.93/6.46	4.90/10.81
Included accessories		• Power cord • RJ-45 to RS-232 cable for console connection • Rack mounting kit	• Power cord • RJ-45 to RS-232 cable for console connection • Rack mounting kit
Certifications			
EMC		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

*: This matrix with firmware uOS110 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: With Zyxel service license to enable or extend the feature capacity.

*8: Local GUI only.

*9: Available in Q3, 2026

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

ZyWALL ATP Firewalls

Model		ZyWALL ATP100*9	ZyWALL ATP100W	ZyWALL ATP200
Hardware Specifications				
Interfaces		3 x LAN/DMZ, 1 x WAN, 1 x SFP, 1 x OPT	3 x LAN/DMZ, 1 x WAN, 1 x SFP, 1 x OPT	4 x LAN/DMZ, 2 x WAN, 1 x SFP
USB 3.0 ports		1	1	2
Console port		Yes (RJ-45)	Yes (RJ-45)	Yes (DB9)
Rack-mountable		-	-	Yes
Fanless		Yes	Yes	Yes
System Capacity & Performance*1				
SPI firewall throughput (Mbps)*2		1,000	1,000	2,000
VPN throughput (Mbps)*3		300	300	500
IDP throughput (Mbps)*4		600	600	1,200
AV throughput (Mbps)*4		380	380	630
UTM throughput (AV and IDP)*4		380	380	630
Max. TCP concurrent sessions*5		300,000	300,000	600,000
Max. concurrent IPSec VPN tunnels*6		40	40	100
VLAN interface		8	8	16
Speedtest Performance				
SPI firewall throughput (Mbps)*7		850	850	900
Key Features				
Security Service	Sandboxing*8	Yes	Yes	Yes
	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*8	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
VPN Features	VPN	IKEv2, IPSec, L2TP/IPSec	IKEv2, IPSec, L2TP/IPSec	IKEv2, IPSec, L2TP/IPSec
	Microsoft Azure	Yes	Yes	Yes
	Amazon VPC	Yes	Yes	Yes
WLAN Management	Default Number of Managed AP	8	8	8
	Recommend Max. AP in 1 AP Group	10	10	20
	Secure WiFi Service*8	Yes	Yes	Yes
	Maximum Number of Tunnel-Mode AP	6	6	10
Management & Connectivity	Maximum Number of Managed AP	24	24	40
	Nebula Cloud Mode	Yes	Yes	Yes
	Nebula Cloud Monitoring Mode	Yes	Yes	Yes
	Device HA Pro	-	-	-
	Link Aggregation (LAG)	-	-	-
	Concurrent Devices Logins (max.)	64	64	200
Power Requirements				
Power input		12 V DC, 2 A max.	12 V DC, 2 A max.	12 V DC, 2.5 A max.
Max. power consumption (watt)		12.5	12.5	13.3
Heat dissipation (BTU/hr)		42.65	42.65	45.38
Physical Specifications				
Item	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
Packing	Dimensions (WxDxH)(mm/in.)	284 x 190 x 100/11.8 x 7.48 x 3.94	284 x 190 x 100/11.8 x 7.48 x 3.94	427 x 247 x 73/16.81 x 9.72 x 2.87
	Weight (kg/lb.)	1.4/3.09	1.4/3.09	2.42/5.34
Included accessories		• Power adapter • RJ-45 cable • RS-232 cable	• Power adapter • RJ-45 cable • RS-232 cable	• Power adapter • Rack mounting kit (optional, by regions)
Environmental Specifications				
Operating	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage	Temperature	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F	-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)		989,811(at 25°C) and 576,237(at 40°C)	989,811(at 25°C) and 576,237(at 40°C)	832,102(at 25°C) and 536,472(at 40°C)
Acoustic noise		-	-	-
Certifications				
EMC		FCC Part 15 (Class B), CE EMC (Class B), BSMI	FCC Part 15 (Class B), CE EMC (Class B), BSMI	FCC Part 15 (Class B), CE (Class B), C-Tick (Class B), BSMI
Safety		LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI

*: 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 ATP Firewalls

Model		ZyWALL ATP500	ZyWALL ATP700	ZyWALL ATP800
Hardware Specifications				
Interfaces		7 (configurable), 1 x SFP	12 (configurable), 2 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-mountable		Yes	Yes	Yes
Fanless		-	-	-
System Capacity & Performance*1				
SPI firewall throughput (Mbps)*2		2,600	6,000	8,000
VPN throughput (Mbps)*3		900	1,200	1,500
IDP throughput (Mbps)*4		1,700	2,200	2,700
AV throughput (Mbps)*4		900	1,600	2,000
UTM throughput (AV and IDP)*4		890	1,500	1,900
Max. TCP concurrent sessions*5		1,000,000	1,600,000	2,000,000
Max. concurrent IPSec VPN tunnels*6		300	1,000	1,000
VLAN interface		64	128	128
Speedtest Performance				
SPI firewall throughput (Mbps)*7		900	930	930
Key Features				
Security Service	Sandboxing*8	Yes	Yes	Yes
	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*8	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
VPN Features	VPN	IKEv2, IPSec, L2TP/IPSec	IKEv2, IPSec, L2TP/IPSec	IKEv2, IPSec, L2TP/IPSec
	Microsoft Azure	Yes	Yes	Yes
	Amazon VPC	Yes	Yes	Yes
WLAN Management	Default Number of Managed AP	8	8	8
	Recommend Max. AP in 1 AP Group	60	200	300
	Secure WiFi Service*8	Yes	Yes	Yes
	Maximum Number of Tunnel-Mode AP	18	66	130
Management & Connectivity	Maximum Number of Managed AP	72	264	520
	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
	Concurrent Devices Logins (max.)	300	1500	1500
Power Requirements				
Power input		12 V DC, 4.17 A	100 - 240 V AC, 50/60 Hz, 2.5 A max.	100 - 240 V AC, 50/60 Hz, 2.5 A max.
Max. power consumption (watt)		24.1	46	46
Heat dissipation (BTU/hr)		82.23	120.1	120.1
Physical Specifications				
Item	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 1.73
	Weight (kg/lb.)	1.65/3.64	3.3/7.28	3.3/7.28
Packing	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 6.42
	Weight (kg/lb.)	2.83/6.24	4.8/10.58	4.8/10.58
Included accessories		• Power adapter • Power cord • Rack mounting kit	• Power cord • Rack mounting kit	• Power cord • Rack mounting kit
Environmental Specifications				
Operating	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage	Temperature	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F	-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)		937,790(at 25°C) and 529,688(at 40°C)	947,737(at 25°C) and 444,931(at 40°C)	947,737(at 25°C) and 444,931(at 40°C)
Acoustic noise		24.5 dBA on < 25°C operating temperature, 41.5 dBA on full FAN speed	25.3 dBA on < 25°C operating temperature, 46.2 dBA on full FAN speed	25.3 dBA on < 25°C operating temperature, 46.2 dBA on full FAN speed
Certifications				
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
Safety		LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI

*: 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 Specifications			
WiFi standard		N/A	802.11 ax/ac/n/g/b/a
10/100/1000 Mbps RJ-45 ports		4 x LAN/DMZ, 1 x WAN	4 x LAN/DMZ, 1 x WAN
USB 3.0 ports		2	2
Console port		Yes (RJ-45)	Yes (RJ-45)
Rack-mountable		N/A	N/A
Fanless		Yes	Yes
System Capacity & Performance ¹			
SPI firewall throughput (Mbps) ²		350	350
VPN throughput (Mbps)		90	90
VPN IMIX throughput (Mbps) ³		40	40
Max. TCP concurrent sessions ⁴		20,000	20,000
Max. concurrent IPsec VPN tunnels ⁵		20	20
Recommended gateway-to-gateway IPsec VPN tunnels		5	5
VLAN interface		8	8
Speedtest Performance			
SPI firewall throughput (Mbps) ⁶		320	320
Key Features			
Security Service	Web Filtering ⁷	Yes	Yes
	SecuReporter ⁷	Yes	Yes
	Two-Factor Authentication	Yes	Yes
	Device Insight	Yes	Yes
	Security Profile Synchronize ⁷	Yes	Yes
VPN Features	VPN	IKEv2, IPsec, L2TP/IPsec	IKEv2, IPsec, L2TP/IPsec
	Microsoft Azure	Yes	N/A
	Amazon VPC	Yes	Yes
Management & Connectivity	Nebula Cloud Mode	Yes	Yes
	Nebula Cloud Monitoring Mode	Yes	Yes
	Easy Mode ⁸	Yes	Yes
	Concurrent Devices Logins ⁹	64	64
Power Requirements			
Power input		12 V DC, 2.0 A max.	12 V DC, 2.5 A max.
Max. power consumption (watt max.)		12	24.3
Heat dissipation (BTU/hr)		40.92	55.37
Physical Specifications			
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 accessories		• Power adapter • RJ-45 - RS-232 cable for console connection	• Power adapter with plug • RJ-45 - RS-232 cable for console connection • Antenna
Environmental 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)		1110,795(at 25°C) and 655,130(at 40°C)	766,228(at 25°C) and 426,310(at 40°C)
Certifications			
EMC		FCC Part 15 (Class B), IC, CE EMC (Class B), RCM, BSMI	FCC Part 15 (Class B), IC EMC (Class B), CE EMC (Class B), RCM (Class B), BSMI
Safety		BSMI, UL	LVD (EN62368-1), 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
Hardware Specifications			
WiFi standard		N/A	802.11 ax/ac/n/g/b/a
10/100/1000 Mbps RJ-45 ports		4 x LAN/DMZ, 1 x WAN	4 x LAN/DMZ, 1 x WAN
USB 3.0 ports		1	1
Console port		Yes (RJ-45)	Yes (RJ-45)
Rack-mountable		N/A	N/A
Fanless		Yes	Yes
System Capacity & Performance ¹			
SPI firewall throughput (Mbps) ^{*2}		900	900
VPN throughput (Mbps) ^{*3}		270	270
VPN IMIX throughput (Mbps) ^{*3}		100	100
IPS throughput (Mbps) ^{*4}		540	540
Anti-Malware throughput (Mbps) ^{*4}		360	360
UTM throughput (Anti-Malware and IPS)(Mbps) ^{*4}		360	360
Max. TCP concurrent sessions ^{*5}		300,000	300,000
Recommended gateway-to-gateway IPsec VPN tunnels		20	20
Max. concurrent IPsec VPN tunnels ^{*6}		50	50
VLAN interface		8	8
Speedtest Performance			
SPI firewall throughput (Mbps) ^{*11}		848	848
Key Features			
Security Service	Sandboxing ^{*7}	Yes	Yes
	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
VPN Features	VPN	IKEv2, IPsec, L2TP/IPsec	IKEv2, IPsec, L2TP/IPsec
	Microsoft Azure	Yes	Yes
	Amazon VPC	Yes	Yes
WLAN Management	Default Number of Managed AP	8	8
	Recommend Max. AP in 1 AP Group	10	10
	Secure WiFi Service ^{*7}	Yes	Yes
	Maximum Number of Tunnel-Mode AP	6	6
Management & Connectivity	Maximum Number of Managed AP	24	24
	Nebula Cloud Mode	Yes	Yes
	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
Power Requirements			
Power input		12 V DC, 2 A max.	12 V DC, 2.5 A max.
Max. power consumption (watt Max.)		12.5	24.3
Heat dissipation (BTU/hr)		42.65	55.37
Physical Specifications			
Item	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
Packing	Dimensions (WxDxH)(mm/in.)	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
	Weight (kg/lb.)	1.40/3.09	1.53/3.37
Included accessories		• Power adapter • RJ-45 - RS-232 cable for console connection	• Power adapter with plug • RJ-45 - RS-232 cable for console connection • Antenna
Environmental 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)		989,810 (at 25°C) and 576,237 (at 40°C)	766,228(at 25°C) and 426,310(at 40°C)
Certifications			
EMC		FCC Part 15 (Class B), CE EMC (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

*: 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 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, 1x WAN.

ZyWALL USG FLEX Firewalls

Model		USG FLEX 200	USG FLEX 500	USG FLEX 700
Hardware Specifications				
10/100/1000 Mbps RJ-45 ports		4 x LAN/DMZ, 2 x WAN, 1 x 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-mountable		Yes	Yes	Yes
Fanless		Yes	N/A	N/A
System Capacity & Performance ¹				
SPI firewall throughput (Mbps) ^{*2}		1,800	2,300	5,400
VPN throughput (Mbps) ^{*3}		450	810	1,100
VPN IMIX throughput (Mbps) ^{*3}		160	240	550
IPS throughput (Mbps) ^{*4}		1,100	1,500	2,000
Anti-Malware throughput (Mbps) ^{*4}		570	800	1,450
UTM throughput (Anti-Malware and IPS)(Mbps) ^{*4}		550	800	1,350
Max. TCP concurrent sessions ^{*5}		600,000	1,000,000	1,600,000
Recommended gateway-to-gateway IPsec VPN tunnels		50	150	250
Max. concurrent IPsec VPN tunnels ^{*6}		100	300	500
VLAN interface		16	64	128
Speedtest Performance				
SPI firewall throughput (Mbps) ^{††}		931	935	934
Key Features				
Security Service	Sandboxing ^{*7}	Yes	Yes	Yes
	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}	Yes	Yes	Yes
	Geo Enforcer ^{*7}	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
	Email Security	Yes	Yes	Yes
VPN Features	VPN	IKEv2, IPsec, L2TP/IPsec	IKEv2, IPsec, L2TP/IPsec	IKEv2, IPsec, L2TP/IPsec
	Microsoft Azure	Yes	N/A	N/A
	Amazon VPC	Yes	Yes	Yes
WLAN Management	Default Number of Managed AP	8	8	8
	Recommend Max. AP in 1 AP Group	20	60	200
	Secure WiFi Service ^{*7}	Yes	Yes	Yes
	Maximum Number of Tunnel-Mode AP	10	18	130
	Maximum Number of Managed AP	40	72	520
Management & Connectivity	Nebula Cloud Mode	Yes	Yes	Yes
	Nebula Cloud Monitoring Mode	Yes	Yes	Yes
	Device HA Pro	N/A	Yes	Yes
	Link Aggregation (LAG)	N/A	Yes	Yes
	Hotspot Management ^{*7}	Yes	Yes	Yes
	Ticket Printer Support ^{*9} /Support Q'ty (max.)	Yes (SP350E)/10	Yes (SP350E)/10	Yes (SP350E)/10
	Concurrent Devices Logins (default/max.) ^{*7*8}	200	200/300	500/2000
Power Requirements				
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 max.
Max. power consumption (watt Max.)		13.3	24.1	46
Heat dissipation (BTU/hr)		45.38	82.23	120.1
Physical Specifications				
Item	Dimensions (WxDxH)(mm/in.)	272 x 187 x 36/10.7 x 7.36 x 1.42	300 x 188 x 44/16.93 x 7.4 x 1.73	430 x 250 x 44/16.93 x 9.84 x 1.73
	Weight (Kg/lb.)	1.4/3.09	1.65/3.64	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	519 x 392 x 163/20.43 x 15.43 x 6.42
	Weight (kg/lb.)	2.23 (W/O bracket)	2.83/6.24	4.8/10.58
		2.42 (W/ bracket)		
Included accessories		• Power adapter • Rack mounting kit	• Power adapter • Power cord • Rack mounting kit	• Power cord • Rack mounting kit
Environmental Specifications				
Operating	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F
	Humidity	10% to 90% (non-condensing)	10% to 90% (non-condensing)	10% to 90% (non-condensing)
Storage	Temperature	-30°C to 70°C/-22°F to 158°F	-30°C to 70°C/-22°F to 158°F	-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)		832,102(at 25°C) and 536,472(at 40°C)	937,790(at 25°C) and 529,688(at 40°C)	947,737(at 25°C) and 444,931(at 40°C)
Acoustic Noise		N/A	24.5 dBA on < 25°C operating temperature, 41.5 dBA on full FAN speed	24.5 dBA on < 25°C operating temperature, 41.5 dBA on full FAN speed
Certifications				
EMC		FCC Part 15 (Class B), CE EMC (Class B), C-Tick (Class B), BSMI (Class A),	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI (Class A),	FCC Part 15 (Class A), CE EMC (Class A), C-Tick (Class A), BSMI (Class A),
Safety		LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), 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 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.

USG LITE

Model		USG LITE 60AX	
Hardware Specifications			
WiFi standard		802.11 ax/ac/n/g/b/a	
CPU		Quad-core, 2.00GHz	
RAM / FLASH		1GB/512MB	
Ethernet ports	WAN	1 x 100/1000/2500 Mbps	
	LAN	1 x 100/1000/2500 Mbps 4 x 100/1000 Mbps	
System Capacity & Performance*1			
SPI firewall throughput (Mbps)*2		2,000	
Throughput with Application management on (Mbps)		2,000	
Throughput with Threat management on (Mbps)		2,000	
VPN throughput (Mbps)*3		300	
Max. TCP concurrent sessions*4		20,000	
Max. gateway-to-gateway IPsec VPN tunnels		3	
Max. concurrent IPsec VPN tunnels		5	
Max. remote VPN tunnels		5	
VLAN interface		4	
Wireless Features			
MIMO		MU-MIMO	
MU-MIMO		Open, WPA2-PSK, WPA3-Personal	
Fast roaming		802.11r/k/v	
MESH Networking		Smart Mesh	
Wireless bridge		Yes	
Site-wide SSID provisioning from Nebula cloud		Yes	
See wireless client info from the Nebula dashboard		Yes	
Auto / Fixed Channel Selection		Yes	
Security Features			
Ransomware/Malware Prevention		Yes	
Intrusion Blocker		Yes	
Dark Web Blocker		Yes	
Stop Mail Fraud & Phishing		Yes	
Block Ads		Yes	
Block VPN Proxy		Yes	
Firewall		Yes	
Country Restriction (GeoIP blocking)		Yes	
Exception list		Yes	
Custom allowed / blocked domain		Yes	
Traffic Management (applications & clients)		Yes	
Security event analytics		Nebula Threat Report	
Real-time threat intelligence*6		Yes	
Web Filtering (Content Filter)*6		Yes	
VPN Features			
Site2site VPN		IPSec	
Remote access VPN		Yes	
Networking Features			
WAN Type		DHCP/Static IP/PPPoE	
Reserve IP (static DHCP)		Yes	
Block clients		Yes	
NAT - Virtual server		Yes	
DHCP server and DHCP relay		Yes	
Dynamic DNS (DDNS)		Yes	
Static route		Yes	
Guest Network		Yes	
VLAN Segmentation		Yes	
Management			
Onboarding WAN setting method		Yes	
Site-wide SSID management		Yes	
Multi-site management		Yes	
Client report		Yes	
Firmware upgrade		Yes	
Remote support and diagnostics		Yes	
Keep device settings in the Nebula		Yes	
Live tools		Yes	
Event Log		Yes	
Nebula Pro Pack - Advance feature set*6		Yes	

Power Requirements		
Power input	12 V DC, 3.0 A	
Max. power consumption (watt max.)	31W	
Physical Specifications		
Item	Dimensions(L x W x H)(mm/in.)	161.7 x 65 x 229/6.37 x 2.56 x 9.02
	Weight(g/lb.)	707/1.56
Environmental Specifications		
Operating	Temperature	0°C to 40°C/32°F to 104°F
	Humidity	Humidity:5% to 95% (Non-condensing)
Storage	Temperature	-30°C to 70°C/-22°F to 158°F
	Humidity	5% to 95% (Non-condensing)
Certifications		
Certifications	CE, FCC, BSMI	

*1: Actual performance may vary depending on system configuration,network conditions, and activated applications.
*2: Maximum throughput is measured using FTP with a 2 GB file and 1,460-byte packets across multiple sessions.
*3: VPN throughput is measured based on RFC 2544 using 1,424-byte UDP packets.
*4: Maximum sessions are measured using the industry-standard IXIA IxLoad testing tool.
*5: Requiring Elite Pack.

SCR

Model	SCR 50AXE	
Hardware Specifications		
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	
System Capacity & Performance		
SPI firewall throughput LAN to WAN (Mbps)	900	
Threat mgmt ON/App mgmt OFF (Mbps)	900	
Wireless Specifications		
Standard compliance	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 security	WPA2-PSK, WPA3-PSK	
Wireless frequency	2.4/5/6 GHz	
Radio	3	
SSID number	4	
WPS	Yes	
No. of antenna	4 (internal)	
Antenna gain	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 5 GHz: up to 2400 Mbps 6 GHz: up to 2400 Mbps	
Security Features		
Ransomware/Malware Prevention	Yes	
Intrusion Blocker	Yes	
Dark Web Blocker	Yes	
Stop Mail Fraud & Phishing	Yes	
Block Ads	Yes	
Block VPN Proxy	Yes	
Content Filter*	Yes	
Firewall	Yes	
Country Restriction (GeoIP)	Yes	
Exception List	Yes	
Custom Allowed/Blocked Domain	Yes	
Traffic Management (Applications & Clients)	Yes	
Security Event Analytics	Threat Management Report	
VPN Features		
Site2site VPN	IPSec (site-to-site, spoke only)	
Networking		
WAN type	DHCP/Static IP/PPPoE/PPPoE with static IP	
Networking features	NAT - Virtual server DHCP IP/MAC binding Block clients Guest network**	
IPTV passthrough	IGMP Proxy	
Management		
Site-wide SSID management	Nebula	
Multi-site management	Nebula	
Topology*	Nebula	
Diagnostics	Yes	
Remote support**	Yes	
Onboarding WAN setting method	WiFi	
Power Requirements		
Power input	12 V DC, 2.0 A	
Max. power consumption (watt max.)	21 W	
Physical Specifications		
Item	Dimensions (WxDxH)(mm/in.)	178.0 x 54.6 (stand 68.2) x 242.2/7.00 x 2.14 (stand 2.68) x 9.54
	Weight (g/lb.)	651/1.44 (with stand)
Environmental Specifications		
Operating	Temperature	0°C to 40°C/32°F to 104°F
	Humidity	10% to 90% (non-condensing)
Storage	Temperature	-30°C to 70°C/-22°F to 158°F
	Humidity	10% to 95% (non-condensing)
Certifications		
Certifications	CE, FCC, BSMI	

*: Requiring SCR Pro Pack license.
**: Available in Q3 2023.

Wireless Specifications

Model	USG FLEX	USG LITE	SCR
	USG FLEX 50/100AX	USG LITE 60AX	SCR 50AXE
Standard compliance	802.11 ax/ac/n/g/b/a	IEEE802.11 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	8	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) 2.4GHz: 29.98dBm,4 antennas - US(FCC)5GHz: 29.82dBm,4 antennas - EU(ETSI)2.4GHz: 19.92dBm(EIRP),4 antennas - EU(ETSI)5GHz: 29.90dBm(EIRP),4 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	4 internal antennas	4 internal antennas
Antenna gain	3 dBi @2.4 GHz/5 GHz	3.65 dBi @2.4 GHz 4.63 dBi @5 GHz	2 dBi @2.4 GHz 3 dBi @5 GHz 3.5 dBi @6 GHz
Data rate	2.4 GHz: up to 600 Mbps 5 GHz: up to 1200 Mbps	2.4 GHz: up to 1150 Mbps 5 GHz: up to 4802 Mbps	2.4 GHz: up to 575 Mbps 5 GHz: up to 2400 Mbps 6 GHz: up to 2400 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/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 a/n/ac/ax) - USA (FCC): 2.412 to 2.462 GHz - Europe (ETSI): 2.417 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 5.895 GHz - European (ETSI): 5.150 to 5.250 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 GHz - TWN (NCC): 5.150 to 5.250 GHz; 5.250 to 5.350 GHz; 5.470 to 5.725 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 5.350 GHz; 5.470 to 5.725 GHz - TWN (NCC): 5.150 to 5.250 GHz; 5.250 to 5.350 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 - VHT80, MCS9 ≤ -68 dBm +/- 2 dBm - HE20, MCS11 ≤ -61 dBm +/- 2 dBm - HE40, MCS11 ≤ -58 dBm +/- 2 dBm - HE80, MCS11 ≤ -55 dBm +/- 2 dBm	2.4 GHz: 11Mbps = -89dBm 54Mbps = -76dBm - HT20,MCS7 =-74dBm - HT40,MCS7 =-71dBm - VHT20,MCS8 =-74dBm - VHT40,MCS9 =-65dBm - HE20,MCS11 =-63dBm - HE40,MCS11 =-60dBm 5 GHz: 54Mbps =-76dBm - HT20,MCS7 =-74dBm - HT40,MCS7 =-71dBm - VHT20,MCS8 =-71dBm - VHT40,MCS9 =-65dBm - VHT80,MCS9 =-62dBm - HE20,MCS11 =-65dBm - HE40,MCS11 =-62dBm - HE80,MCS11 =-59dBm - HE160,MCS11 =-56dBm	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 - HE20, MCS11 ≤ -58 dBm +/- 2 dBm - HE40, MCS11 ≤ -55 dBm +/- 2 dBm 5 GHz: 54 Mbps ≤ -72 dBm - HT20, MCS7 ≤ -71 dBm - HT40, MCS7 ≤ -68 dBm - HT80, MCS7 ≤ -65 dBm - VHT20, MCS8 ≤ -65 dBm +/- 2 dBm - VHT40, MCS9 ≤ -62 dBm +/- 2 dBm - VHT80, MCS9 ≤ -59 dBm +/- 2 dBm - HE20, MCS11 ≤ -60 dBm +/- 2 dBm - HE40, MCS11 ≤ -58 dBm +/- 2 dBm - HE80, MCS11 ≤ -55 dBm +/- 2 dBm - HE (80+80), MCS11 ≤ -52 dBm +/- 2 dBm 6 GHz: - HE20, MCS11 ≤ -61 dBm +/- 2 dBm - HE40, MCS11 ≤ -58 dBm +/- 2 dBm - HE80, MCS11 ≤ -55 dBm +/- 2 dBm - HE160, MCS11 ≤ -52 dBm +/- 2 dBm

Compatibility & Accessories

Secure Tunnel for Remote AP

Series	Model	Number of Tunnel Mode APs	Supported Remote APs
USG FLEX	USG FLEX 100/100W/100AX	6	- WBE660S - WBE630S - WBE530 - WBE510D - WAX650S
	USG FLEX 200	10	WAX655E
	USG FLEX 500	18	WAX640S-6E
	USG FLEX 700	130	WAX620D-6E
ATP	ATP100/100W	6	WAX630S
	ATP200	10	WAX610D
	ATP500	18	WAX510D
	ATP700	66	WAC500
VPN	ATP800	130	WAC500H
	VPN50	10	WAC500H
	VPN100	18	
	VPN300	130	
	VPN1000	258	

Managed AP Service

Series	Model	Managed APs (Default/Max)	Supported Managed APs	
USG FLEX H	USG FLEX 50H/HP	8/12	WBE660S	WAX640S-6E
	USG FLEX 100H/HP	8/24	WBE630S	WAX620D-6E
	USG FLEX 200H/HP	8/40	WBE530	WAX610D
	USG FLEX 500H	8/72	WBE510D	WAX510D
	USG FLEX 700H	8/520	- WAX655E - WAX650S - WAX630S	- WAX300H - WAX6503D-S - WAX6503D-S - WAX6503D-S
USG FLEX	USG FLEX 100/100W/100AX	8/24	WBE660S	WAX300H
	USG FLEX 200	8/40	WBE630S	WAC6502D-E
	USG FLEX 500	8/72	WBE530	WAC6502D-S
	USG FLEX 700	8/520	WBE510D	WAC6503D-S
	USG FLEX 100/100W	8/24	WAX655E	WAC6553D-E
ATP	ATP100/100W	8/24	WAX630S	WAC6552D-S
	ATP200	8/40	WAX610D	WAC6303D-S
	ATP500	8/72	WAX640S-6E	WAC6103D-I
	ATP700	8/264	WAX620D-6E	WAC5302D-S
	ATP800	8/520	- WAC5302D-Sv2 - WAC500 - WAC500H - WAX650S - WAX510D	- WAC6502D-S - NWA5123-AC HD - NWA5123-AC - NWA5121-NI - NWA5123-NI - NWA5301-NJ

Transceivers (Optional)

Model	Speed*	Connector	Wavelength (nm)	Max. Distance (km/yd)	DDMI	Optical Fiber Type
SFP10G-T*1	10-Gigabit SFP+	RJ-45	-	0.03/32.8	-	-
SFP10G-SR*2	10-Gigabit SFP+	Duplex LC	850	0.3/328	Yes	Multi mode
SFP10G-SR-E*2	10-Gigabit SFP+	Duplex LC	850	0.3/328	Yes	Multi mode
SFP10G-LR*2	10-Gigabit SFP+	Duplex LC	1310	10/10936	Yes	Single mode
SFP10G-LR-E*2	10-Gigabit SFP+	Duplex LC	1310	10/10936	Yes	Single mode
SFP-1000T	Gigabit	RJ-45	-	0.1/109	-	-
SFP-SX-D*2	Gigabit	Duplex LC	850	0.55/601	Yes	Multi mode
SFP-SX-E*2	Gigabit	Duplex LC	850	0.55/601	Yes	Multi mode
SFP-LX-10-D*2	Gigabit	Duplex LC	1310	10/10936	Yes	Single mode
SFP-LX-10-E*2	Gigabit	Duplex LC	1310	10/10936	Yes	Single mode

*: Only USG FLEX 700H supports 10-Gigabit SFP+. Please note that Direct Attach Copper (DAC) cables are not supported. For optimal performance, use compatible SFP+ optical modules.

*1: Works with Cat6a/7 Cable up to 30 m. Switch fan speed will speed up to dissipate the addition heat generated by 10G BASE-T transceiver. The maximum number of 10G copper transceivers a switch can support depends on its thermal design.

*2: Only connections with patch cords with PC or UPC connectors are supported.

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.	- Windows 10 64-bit - Windows 11 64-bit - macOS 10.15 or above

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

Corporate Headquarters

Zyxel Networks Corp.
Tel: +886-3-578-3942
Fax: +886-3-578-2439
Email: sales@zyxel.com.tw
www.zyxel.com

Europe

Zyxel Belarus
Tel: +375 25 604 3739
Email: info@zyxel.by
www.zyxel.by

Zyxel Norway
Tel: +47 22 80 61 80
Fax: +47 22 80 61 81
Email: salg@zyxel.no
www.zyxel.no

Zyxel BeNeLux
Tel: +31 23 555 3689
Fax: +31 23 557 8492
Email: sales@zyxel.nl
www.zyxel.nl
www.zyxel.be

Zyxel Poland
Tel: +48 223 338 250
Hotline: +48 226 521 626
Fax: +48 223 338 251
Email: info@pl.zyxel.com
www.zyxel.pl

Zyxel Bulgaria (Bulgaria, Macedonia, Albania, Kosovo)
Tel: +3592 4443343
Email: info@cz.zyxel.com
www.zyxel.bg

Zyxel Romania
Tel: +40 770 065 879
Email: info@zyxel.ro
www.zyxel.ro

Zyxel Czech Republic
Tel: +420 725 567 244
Tel: +420 606 795 453
Email: sales@cz.zyxel.com
Support: https://support.zyxel.eu
www.zyxel.cz

Zyxel Russia
Tel: +7 499 705 6106
Email: info@zyxel.ru
www.zyxel.ru

Zyxel Denmark A/S
Tel: +45 39 55 07 00
Fax: +45 39 55 07 07
Email: sales@zyxel.dk
www.zyxel.dk

Zyxel Slovakia
Tel: +421 919 066 395
Email: sales@sk.zyxel.com
Support: https://support.zyxel.eu
www.zyxel.sk

Zyxel Finland
Tel: +358 9 4780 8400
Email: myynti@zyxel.fi
www.zyxel.fi

Zyxel Sweden A/S
Tel: +46 8 55 77 60 60
Fax: +46 8 55 77 60 61
Email: sales@zyxel.se
www.zyxel.se

Zyxel France
Tel: +33 (0)4 72 52 97 97
Fax: +33 (0)4 72 52 19 20
Email: info@zyxel.fr
www.zyxel.fr

Zyxel Switzerland
Tel: +41 (0)44 806 51 00
Fax: +41 (0)44 806 52 00
Email: info@zyxel.ch
www.zyxel.ch

Zyxel Germany GmbH
Tel: +49 (0) 2405-6909 0
Fax: +49 (0) 2405-6909 99
Email: sales@zyxel.de
www.zyxel.de

Zyxel Turkey A.S.
Tel: +90 212 314 18 00
Fax: +90 212 220 25 26
Email: bilgi@zyxel.com.tr
www.zyxel.com.tr

Zyxel Hungary & SEE
Tel: +36 1 848 0690
Email: info@zyxel.hu
www.zyxel.hu

Zyxel UK Ltd.
Tel: +44 (0) 118 9121 700
Fax: +44 (0) 118 9797 277
Email: sales@zyxel.co.uk
www.zyxel.co.uk

Zyxel Iberia
Tel: +34 911 792 100
Email: ventas@zyxel.es
www.zyxel.es

Zyxel Ukraine
Tel: +380 89 323 9959
Email: info@zyxel.eu
www.zyxel.ua

Zyxel Italy
Tel: +39 011 230 8000
Email: info@zyxel.it
www.zyxel.it

Asia

Zyxel China (Shanghai) China Headquarters
Tel: +86-021-61199055
Fax: +86-021-52069033
Email: sales@zyxel.cn
www.zyxel.cn

Zyxel China (Beijing)
Tel: +86-010-62602249
Email: sales@zyxel.cn
www.zyxel.cn

Zyxel China (Tianjin)
Tel: +86-022-87890440
Fax: +86-022-87892304
Email: sales@zyxel.cn
www.zyxel.cn

Zyxel India
Tel: +91-11-4760-8800
Fax: +91-11-4052-3393
Email: info@zyxel.in
www.zyxel.in

Zyxel Kazakhstan
Tel: +7 727 350 5683
Email: info@zyxel.kz
www.zyxel.kz

Zyxel Korea Corp.
Tel: +82-2-890-5535
Fax: +82-2-890-5537
Email: sales@zyxel.kr
www.zyxel.kr

Zyxel Malaysia
Tel: +603 2282 1111
Fax: +603 2287 2611
Email: sales@zyxel.com.my
www.zyxel.com.my

Zyxel Middle East FZE
Tel: +971 4 372 4483
Cell: +971 562146416
Email: sales@zyxel-me.com
www.zyxel-me.com

Zyxel Philippine
Email: sales@zyxel.com.ph
www.zyxel.com.ph

Zyxel Singapore
Tel: +65 6339 3218
Hotline: +65 6339 1663
Fax: +65 6339 3318
Email: sales@zyxel.com.sg
www.zyxel.com.sg

Zyxel Taiwan (Taipei)
Tel: +886-2-2739-9889
Fax: +886-2-2735-3220
Email: sales_tw@zyxel.com.tw
www.zyxel.com.tw

The Americas

Zyxel USA North America Headquarters
Tel: +1-714-632-0882
Fax: +1-714-632-0858
Email: sales@zyxel.com
us.zyxel.com

Zyxel Brazil
Tel: +55 (11) 3373-7470
Fax: +55 (11) 3373-7510
Email: comercial@zyxel.com.br
www.zyxel.com/br/pt/



For more product information, visit us on the web at www.zyxel.com

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