ZYXEL
NETWORKS

Security

Solution Guide

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 rely on network security appliances for two main reasons: to protect company resources from threats and enable secure communication between locations via VPNs. Zyxel has a proven track record with the highly-regarded ATP and USG FLEX series, providing effective protection against emerging threats over the years. Now, introducing our new SCR series: subscription-free, easy-to-manage network security in a single cloud router solution for teleworkers and small businesses/offices. Experience peace of mind with Zyxel's SCR series, empowering you to focus on your work without compromising security.

A Simpler Approach to
WiFi 6E and Security

SCR 50AXE Secure Cloud-managed Router

Zyxel Security Portfolio

Users	Security Bundled	Flexibility	Essential & Handy
	Model Series		
	ATP	USG FLEX	SCR
Up to 500	ATP800		
Up to 350	ATP700	USG FLEX 700	
Up to 200	ATP500	USG FLEX 500	
Up to 50	ATP200	USG FLEX 200	
Up to 25	ATP100	USG FLEX 100 USG FLEX 100AX	
Up to 15		USG FLEX 50 USG FLEX 50AX	
Up to 5			SCR 50AXE

Zyxel security solutions

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.

USG FLEX Firewalls

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.

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 • 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
Cloud Email Security	• Extend protection to mobile devices into network • Shows brief summary about the member activities • Monitor and analyze the usage and measure most used 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	• 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
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	• 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.

Pack	Firewall Series	Security							
		Licensed Service							
		Anti-Malware/ Virus	Web Filtering/ Content Filtering	Sandboxing	Reputation Filter	IPS/IDP	Application Patrol	Email Security/ Anti-Spam	SecuReporter
		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
Gold Security Pack	ATP	●	●	●	●	●	●	●	●
	USG FLEX*³	●	●	●	●	●	●	●	●
UTM Security Pack	USG FLEX*³	●	●			●	●	●	●
Content Filter Pack	USG FLEX 50(AX)		●						●
	USG20(W)-VPN		●						●
3-in-1 UTM Security Pack	USG	●	●			●*¹	●*¹		●
2-in-1 Nebula Security Pack	NSG	●	●			●*¹	●*¹		
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
*3: USG FLEX 50 is not supported for Gold and UTM Security Pack

Security Profile Sync	Collaborative Detection & Response	Ransomware Prevention Premium	Network Premium	Secure WiFi	Hotspot Management	Concurrent Device Upgrade	Nebula Professional Pack	Nebula Plus Pack
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	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
●	●		●	●			●	
●	●		●	●			●	
●	●		●	●*2	●*2	●*2	●*2	●*2
●			●				●*2	●*2
●			●				●*2	●*2
						●*2		●*2
		●					●	

Licensed Service by Model

Security

Compatible Security Appliances	Web Filtering/ Content Filtering	Application Patrol	Anti-Malware/Virus	IPS/IDP	Email Security/ Anti-Spam
	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
ATP100(W)/200	●	●	●	●	●
ATP500/700/800	●	●	●	●	●
USG FLEX 50(AX)	●				
USG FLEX 100(AX/W)	●	●	●	●	●
USG FLEX 200	●	●	●	●	●
USG FLEX 500/700	●	●	●	●	●
SCR 50AXE	●	●			
USG40(W)	●	●	●	●	●
USG60(W)	●	●	●	●	●
USG110/210/310	●	●	●	●	●
USG1100/1900/2200	●	●	●	●	●
USG20(W)-VPN	●				
ZyWALL 110/310/1100	●	●	●	●	●
VPN50	●				
VPN100/300/1000	●	●			

Connectivity

Default Su...

Compatible Security Appliances	Secure WiFi	Network Premium	Hotspot Management	Concurrent Device Upgrade	Nebula SD-WAN	Nebula Professional Pack	Nebula Plus Pack	Amazon VPC
	Secure tunnel and managed AP service	Simplified single sign in to multiple resources	Various Network Access Control	Top up allowed number of connected clients	Simplify the delivery of WAN services across the organization	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
ATP100(W)/200	●	●				●		●
ATP500/700/800	●	●				●		●
USG FLEX 50(AX)		●				●	●	●
USG FLEX 100(AX/W)	●	●				●	●	●
USG FLEX 200	●	●	●			●	●	●
USG FLEX 500/700	●	●	●	●		●	●	●
SCR 50AXE						●		
USG40(W)		●						●
USG60(W)		●	●					●
USG110/210/310		●	●	●				●
USG1100/1900/2200		●	●	●				●
USG20(W)-VPN		●				●	●	●
ZyWALL 110/310/1100		●	●	●				●
VPN50	●	●	●		●			●
VPN100/300/1000	●	●	●	●	●			●

Security Profiles

Security Profile Sync	Collaborative Detection & Response	SecuReporter	Sandboxing	Reputation Filter	SecuExtender VPN Client
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
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Support for Registered Devices

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
Easy network integration with Azure	AP auto discovery and provisioning	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
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Specifications

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
Concurrent SSL VPN users		30	30	60
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, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, 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
	Maximum Number of Managed AP	24	24	40
Management & Connectivity	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 100/11.18 x 7.48 x 3.94	284 x 190 x 100/11.18 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)		989,810.8	989,810.8	529,688.2
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
Concurrent SSL VPN users		150	150	500
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, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, 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
	Maximum Number of Managed AP	72	264	520
Management & Connectivity	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)		529,688.2	947,736	947,736
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]		10	20
Recommended gateway-to-gateway IPsec VPN tunnels		5	5
Concurrent SSL VPN users (default/max.)		5/15	15
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, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, 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)		655,130	766,228.2
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	USG FLEX 100W
Hardware Specifications				
WiFi standard		N/A	802.11 ax/ac/n/g/b/a	802.11 a/b/g/n/ac
10/100/1000 Mbps RJ-45 ports		4 x LAN/DMZ, 1 x WAN	4 x LAN/DMZ, 1 x WAN	4 x LAN/DMZ, 1 x WAN, 1 x SFP
USB 3.0 ports		1	1	1
Console port		Yes (RJ-45)	Yes (RJ-45)	Yes (RJ-45)
Rack-mountable		N/A	N/A	N/A
Fanless		Yes	Yes	Yes
System Capacity & Performance*1				
SPI firewall throughput (Mbps)*2		900	900	900
VPN throughput (Mbps)*3		270	270	270
VPN IMIX throughput (Mbps)*3		100	100	100
IPS throughput (Mbps)*4		540	540	540
Anti-Malware throughput (Mbps)*4		360	360	360
UTM throughput (Anti-Malware and IPS)(Mbps)*4		360	360	360
Max. TCP concurrent sessions*5		300,000	300,000	300,000
Recommended gateway-to-gateway IPsec VPN tunnels		20	20	20
Max. concurrent IPsec VPN tunnels*6		50	50	50
Concurrent SSL VPN users		30	30	30
VLAN interface		8	8	8
Speedtest Performance				
SPI firewall throughput (Mbps)*11		848	848	848
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, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, 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	10
	Secure WiFi Service*7	Yes	Yes	Yes
	Maximum Number of Tunnel-Mode AP	6	6	6
	Maximum Number of Managed AP	24	24	24
Management & Connectivity	Nebula Cloud Mode	Yes	Yes	Yes
	Nebula Cloud Monitoring Mode	Yes	Yes	Yes
	Device HA Pro	N/A	N/A	N/A
	Link Aggregation (LAG)	N/A	N/A	N/A
	Hotspot Management*7	N/A	N/A	N/A
	Ticket Printer Support*9/Support Q'ty (max.)	N/A	N/A	N/A
	Concurrent Devices Logins (default/max.)*7*8	64	64	64
Power Requirements				
Power input		12 V DC, 2 A max.	12 V DC, 2.5 A max.	12 V DC, 2 A max.
Max. power consumption (watt Max.)		12.5	24.3	12.5
Heat dissipation (BTU/hr)		42.65	55.37	42.65
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	216 x 147.3 x 33/8.50 x 5.80 x 1.30
	Weight (Kg/lb.)	0.85/1.87	1.00/2.20	0.85/1.87
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	284 x 190 x 100/11.18 x 7.48 x 3.94
	Weight (kg/lb.)	1.40/3.09	1.53/3.37	1.40/3.09
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	• Power adapter • RJ-45 – RS-232 cable for console connection
Environmental Specifications				
Operating	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F
	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)		989,810.8	766,228.2	989,810.8
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	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 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.

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
Concurrent SSL VPN users		60	150	150
VLAN interface		16	64	128
Speedtest Performance				
SPI firewall throughput (Mbps)*11		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, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, 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) 2.42 (W/ bracket)	2.83/6.24	4.8/10.58
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)		529,688.2	529,688.2	947,736
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	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 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.

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	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	• 2.4 GHz: up to 600 Mbps • 5 GHz: up to 1200 Mbps	• 2.4 GHz: up to 600 Mbps • 5 GHz: up to 1200 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 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 5.350 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: • 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: • 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

Access Point

Product	Unified AP		Unified Pro AP	
Models	• NWA5121-NI • NWA5121-N • NWA5123-NI • NWA5123-AC • NWA5123-AC HD*	• NWA5301-NJ • WAC5302D-S • WAC500* • WAC500H* • WAX510D*	• WAC6103D-I • WAC6303D-S • WAC6502D-E • WAC6502D-S • WAC6503D-S • WAC6552D-S • WAC6553D-E	• WAX650S* • WAX610D • WAX630S • WAX640S-6E • WAX620D-6E • WAX655E

Functions				
Central management	Yes		Yes	
Auto provisioning	Yes		Yes	
Data forwarding	Local bridge		Local bridge/Data tunnel	
ZyMesh	Yes		Yes	

*: Support both local bridge and data tunnel for data forwarding

Service Gateway Printer

Model	Feature	Supported Model			

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

1: 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

*: only USG2200-VPN supports 10-Gigabit SFP+
*1: SFP-BX1310-10-D and SFP-BX1490-10-D are must used in pairs.

VPN Client Subscription

Item	Description	Supported OS
SecuExtender IPSec VPN Client	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

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

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

Zyxel Czech Republic
Tel: +420 241 091 350
Hotline: +420 241 774 665
Fax: +420 241 091 359
Email: sales@cz.zyxel.com
www.zyxel.cz

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

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

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

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

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

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

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

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 Romania
Tel: +40 31 0809 888
Fax: +40 31 0809 890
Email: info@cz.zyxel.com
www.zyxel.ro

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

Zyxel Slovakia
Tel: +421 220 861 847
Hotline: +421 220 861 848
Fax: +421 243 193 990
Email: info@cz.zyxel.com
http://www.zyxel.sk

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

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

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

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: apac.sales@zyxel.com.tw

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

Zyxel Thailand
Tel: +66-(0)-2831-5315
Fax: +66-(0)-2831-5395
Email: info@zyxel.co.th
www.zyxel.co.th

Zyxel Vietnam
Tel: (+848) 35202910
Fax: (+848) 35202800
Email: sales_vn@zyxel.com.tw
www.zyxel.com/vn/vi/

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