ZyWALL USG FLEX 100/100W/200/500/700

USG FLEX Firewall

Precise protection. Flexible subscription.

Introducing the latest USG Series-USG FLEX, delivering higher levels of performance and flexibility! USG FLEX's platform continue its tradition in providing the latest, leading technologies, all while providing a complete suite of security subscription with seamless, scalable gateway connectivity. We want to bring top of the line experience for all business owners!

Benefits

Higher precision detection uncovers threats

Zyxel Security Cloud keeps learning from collecting threat information. USG FLEX series supports advanced Anti-Malware with cloud query express mode which expands billions of signatures. The cloud query with high detection rate helps verify the file hash within seconds.
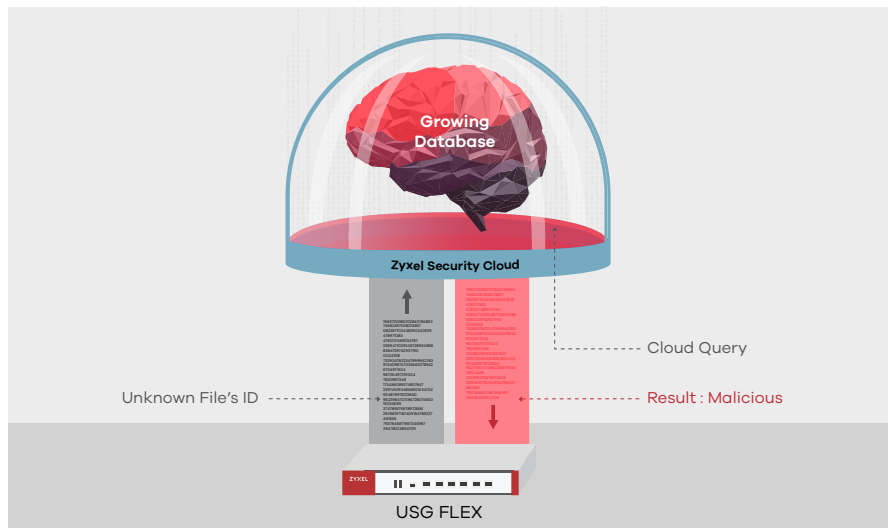
- Precise detection with cloud query express mode

- High assurance multi-layered protection

- Boosts up to 125% firewall performance and 500% UTM performance

- Flexible subscription options for your security needs

- Robust SSL, IPSec and L2TP over IPSec VPN connectivity and VPN high availability (HA)

- Enabled hospitality features with hotspot, AP management, and concurrent device upgrades

Datasheet ZyWALL USG FLEX 100/100W/200/500/700

Best threat intelligence alliance

To ensure your network on getting the best protection, USG FLEX integrates threat intelligence from leading companies and organizations in the cybersecurity field for scaled information about file and real-time threat data. By leveraging a wider malware coverage with multiple-sourced database, this increases the accuracy in threat detection. Web Filtering is also included to safeguard all internet access, especially with CTIRU (Counter-Terrorism Internet Referral Unit) to restrict access to terrorist materials online.
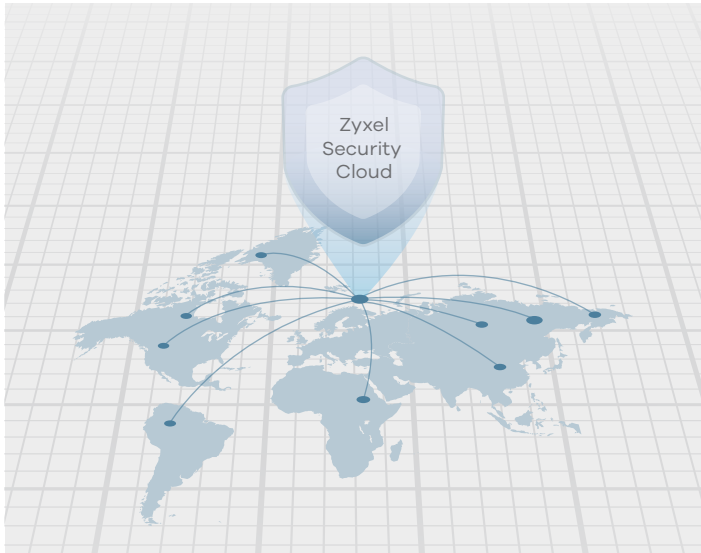
High assurance multi-layered protection

USG FLEX is designed with multi-layer protection against multiple types of threats from in and out. URL Threat Filter, Anti-Malware, and Intrusion Prevention block external attacks, while Application Patrol and Web Filtering empower you to restrict users' inappropriate application usage or web access. Eliminate blind spots in all the encrypted traffic with SSL inspection with the support for TLS 1.3. All together safeguarding your network without any unattended gaps.
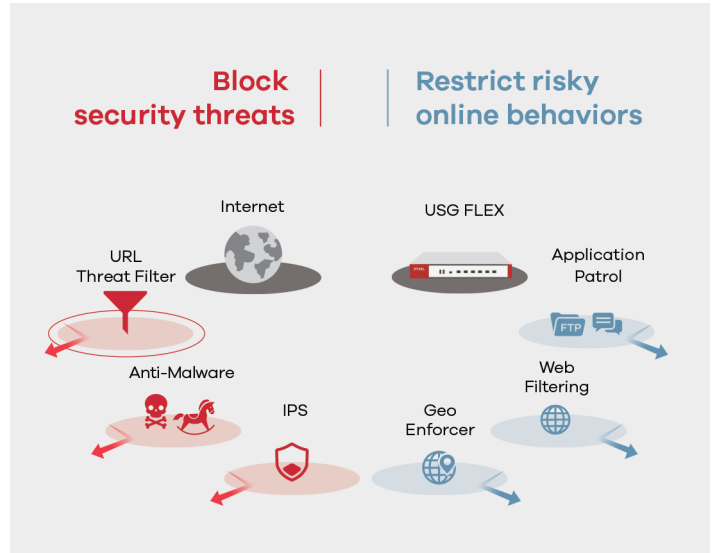
Flexible subscription for your need

USG FLEX security services turn your firewall into a comprehensive security solution. Add Unified Threat Management (UTM) and Hospitality bundled service to get the protection and connectivity that meet your network needs. You can also choose from a single license whenever you need, such as Web Filtering, Anti-Malware, SecuReporter Premium, and more.

Performance boost

The newly designed platform gains up to 125% firewall performance. Maximizes UTM performance by minimizing computing power usage and get additional 500% UTM performance with cloud query express mode.
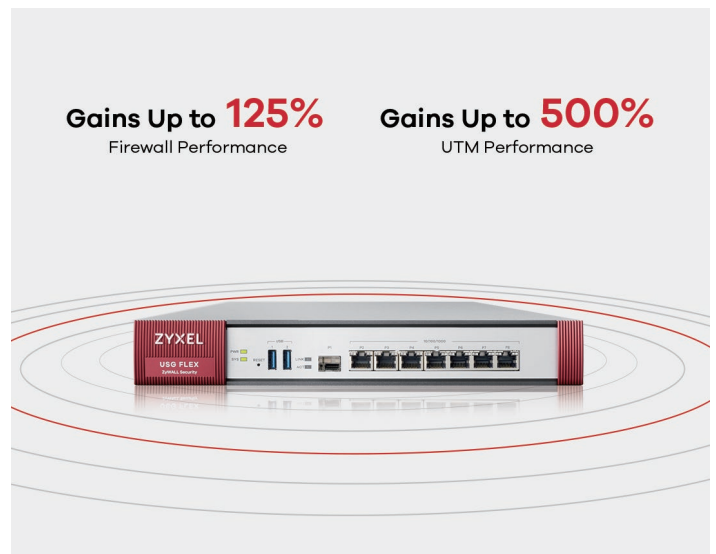
Analytics report and enhanced insights

USG FLEX series dashboard gives user-friendly traffic summary and threat statistic visuals. Utilize SecuReporter for further threat analysis with correlation feature design, making it easy to proactively trackback network status to prevent the next threat event. Centralized visibility of network activities for you to easily manage multiple clients.

Comprehensive connectivity

ZyWALL USG FLEX series not only can protect your network, but it also support Hospitality features including Hotspot, AP management with support for WiFi 6 feature, and concurrent device upgrade. You can buy time-based bundle or quantity-based license to optimize your initial investment and maximize the scale in your environment.

Work remotely and securely

As demands for remote access and work from home has increased, USG FLEX offers IPsec, SSL or L2TP based VPNs to provide flexible secure network options for many of the common operating systems. The Setup Wizard only needs four steps to complete VPN connection easily and quickly. USG FLEX series is also validated by Microsoft Azure and AWS for SMB convenience by using a combination of onsite and cloud-based infrastructure with hybrid networks.
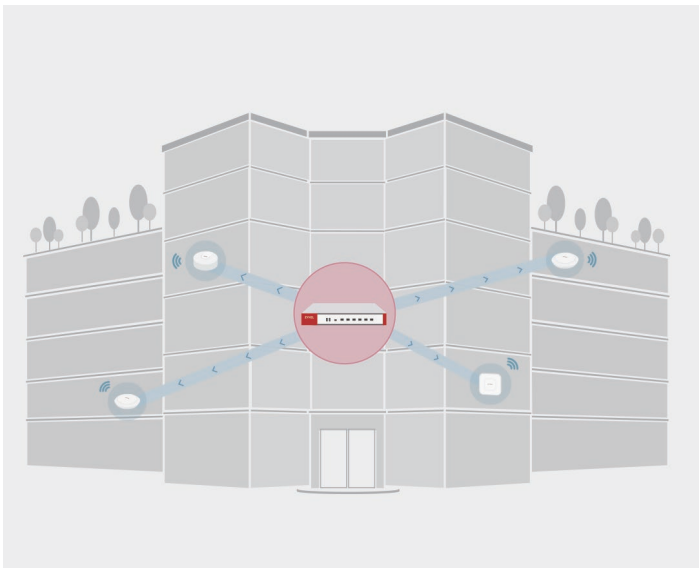
Hardware Included License

Hardware Bundled with Licenses

UTM Security Pack (1Year +30-Day trial)	Hospitality Pack (30-Day trial)
Web Filtering	Managed AP Service
IPS(IDP)	Hotspot Management*
Application Patrol	Concurrent device
Anti-Malware	
Email Security	
SecuReporter	

Hardware Only

UTM Security Pack (30-Day trial)	Hospitality Pack (30-Day trial)
Web Filtering	Managed AP Service
IPS(IDP)	Hotspot Management*
Application Patrol	Concurrent device
Anti-Malware	
Email Security	
SecuReporter	

Renewal License

UTM Security Pack (1YR/ 2YRS)	Hospitality Pack (1YR/ 2YRS)	Single (À La Carte) License
Web Filtering	Managed AP Service	Web Filtering*1 (1YR/ 2YRS)
IPS(IDP)	Hotspot Management*	Anti-Malware (1YR/ 2YRS)
Application Patrol	Concurrent device	Managed AP Service (Quantity Based)
Anti-Malware		Hotspot Management (Perpetual)
Email Security		Concurrent device (Quantity Based*2)
SecuReporter Premium		

*: Hotspot Management is available on USG FLEX 200/500/700 only
*1: Will include Email Security license service
*2: Allowing additional connected clients is available to USG FLEX 500/700 only

License Service	Feature
UTM License	
Web Filtering	Block access to malicious or risky web sites
IPS(IDP)	Deep-packet inspection against known attacks from Network
Application Patrol	Automatically categorize and manage the network application usage
Anti-Malware	Scan files at the gateway or Zyxel security cloud for malware and other threats
Email Security	Fast detection to block spam/phishing mail with malicious contents
SecuReporter	Cloud-based intelligent analytics and report
Hospitality License	
Managed AP Service	AP auto discovery and provisioning
Hotspot Management	Various Network Access Control
Concurrent device	Top up allowed number of connected clients

Specifications

Model	USG FLEX 100	USG FLEX 100W	USG FLEX 200
Product photo			
Hardware Specifications			
WiFi Standard	-	802.11 a/b/g/n/ac	-
10/100/1000 Mbps RJ-45 ports	4 x LAN/DMZ, 1 x WAN, 1 x SFP	4 x LAN/DMZ, 1 x WAN, 1 x SFP	4 x LAN/DMZ, 2 x WAN, 1 x SFP
USB3.0 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]	900	900	1,800
VPN throughput (Mbps)[3]	270	270	450
VPN IMIX throughput (Mbps)[3]	100	100	160
IDP throughput (Mbps)[4]	540	540	1,100
AV throughput (Mbps)[4]	360	360	570
UTM throughput (AV and IDP)[4]	360	360	550
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
Concurrent devices logins (default/max.)[7][8]	64	64	200
Speedtest Performance			
SPI firewall throughput (Mbps)[11]	760	760	810
WLAN Management			
Managed AP number (default/max.)[7]	8/24	8/24	8 40
Recommend max. AP in 1 AP Group	10	10	20
Security Service			
Anti-Malware[7]	Yes	Yes	Yes
IPS (IDP)	Yes	Yes	Yes
Application Patrol[7]	Yes	Yes	Yes
Email Security	Yes	Yes	Yes
Web filtering (CF)[7][9]	Yes	Yes	Yes
SecuReporter Premium[7]	Yes	Yes	Yes
Key Features			
VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
SSL (HTTPS) inspection	Yes	Yes	Yes
2-Factor Authentication	Yes	Yes	Yes
Hotspot Management[7]	-	-	Yes
Ticket printer support[10]/ Support Q'ty (max.)	-	-	Yes (SP350E)/10
Microsoft Azure	Yes	Yes	Yes
Amazon VPC	Yes	Yes	Yes

Model		USG FLEX 100	USG FLEX 100W	USG FLEX 200
Power Requirements				
Power input		12V DC, 2A max.	12V DC, 2A max.	12V DC, 2.5A max.
Max. power consumption (Watt Max.)		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 147.3 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.)	1.40/3.09	1.40/3.09	2.23 (W/O bracket) 2.42 (W/ bracket)
Included accessories		• Power adapter • RJ-45 - RS-232 cable for console connection	• Power adapter • RJ-45 - RS-232 cable for console connection	• Power adapter • 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)		989810.8	989810.8	529688.2
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 EMC (Class B), C-Tick (Class B), BSMI
Safety		LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI

Model	USG FLEX 500	USG FLEX 700
Product photo		

Hardware Specifications

	USG FLEX 500	USG FLEX 700
10/100/1000 Mbps RJ-45 ports	7 (configurable), 1 x SFP (configurable)	12 (configuratble), 2 x SFP (configurable)
USB3.0 ports	2	2
Console port	Yes (DB9)	Yes (DB9)
Rack-mountable	Yes	Yes
Fanless	-	-

System Capacity & Performance[1]

	USG FLEX 500	USG FLEX 700
SPI firewall throughput (Mbps)[2]	2,300	5,400
VPN throughput (Mbps)[3]	810	1,100
VPN IMIX throughput (Mbps)[3]	240	550
IDP throughput (Mbps)[4]	1,500	2,000
AV throughput (Mbps)[4]	800	1,450
UTM throughput (AV and IDP)[4]	800	1,350
Max. TCP concurrent sessions[5]	1,000,000	1,600,000
Max. concurrent IPsec VPN tunnels[6]	300	500
Concurrent SSL VPN users	150	150
VLAN interface	64	128
Concurrent devices logins (default/max.)[7][8]	200/300	500/800

Speedtest Performance

	USG FLEX 500	USG FLEX 700
SPI firewall throughput (Mbps)[11]	810	840

WLAN Management

	USG FLEX 500	USG FLEX 700
Managed AP number (default/max.)[7]	8/72	8/264
Recommend max. AP in 1 AP Group	60	200

Security Service

	USG FLEX 500	USG FLEX 700
Anti-Malware[7]	Yes	Yes
IPS (IDP)	Yes	Yes
Application Patrol[7]	Yes	Yes
Email Security	Yes	Yes
Web filtering (CF)[7][9]	Yes	Yes
SecuReporter Premium[7]	Yes	Yes

Key Features

	USG FLEX 500	USG FLEX 700
VPN	IKEv2, IPSec, SSL, L2TP/IPSec	IKEv2, IPSec, SSL, L2TP/IPSec
SSL (HTTPS) inspection	Yes	Yes
2-Factor Authentication	Yes	Yes
Hotspot Management[7]	Yes	Yes
Ticket printer support[10]/ Support Q'ty (max.)	Yes (SP350E)/10	Yes (SP350E)/10
Microsoft Azure	Yes	Yes
Amazon VPC	Yes	Yes
Device HA Pro	Yes	Yes
Link Aggregation (LAG)	Yes	Yes

Model	USG FLEX 500	USG FLEX 700
Power Requirements		
Power input	12V DC, 4.17A	100-240V AC, 50/60Hz, 2.5A max.
Max. power consumption (Watt Max.)	24.1	46
Heat dissipation (BTU/hr)	82.23	120.1
Physical Specifications		
Item	**Dimensions (WxDxH) (mm/in.)**	300 x188 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.)	1.65/3.64	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
	Weight (kg/lb.)	2.83/6.24	4.8/10.58
Included accessories		• 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
	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)		529688.2	947736
Acoustic Noise		24.5dBA on < 25degC Operating Temperature, 41.5dBA on full FAN speed	24.5dBA on < 25degC Operating Temperature, 41.5dBA 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
Safety		LVD (EN60950-1), BSMI	LVD (EN60950-1), BSMI

*: This matrix with firmware ZLD4.50 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: SafeSearch function in CF need to enable SSL inspection firstly and not for small business models.
*10: With Hotspot Management license support
*11: The Speedtest result is conducted with 1Gbps WAN link in real world and it is subject to fluctuate due to quality of the ISP link.

Wireless Specifications

Model		USG FLEX 100W
Standard compliance		802.11 a/b/g/n/ac
Wireless frequency		2.4 / 5 GHz
Radio		2
SSID number		8
Maximum transmit power (Max. total channel)	US (FCC) 2.4 GHz	25 dBm, 3 antennas
	US (FCC) 5 GHz	25 dBm, 3 antennas
	EU (ETSI) 2.4 GHz	20 dBm(EIRP), 3 antennas
	EU (ETSI) 5 GHz	20 dBm(EIRP), 3 antennas
No. of antenna		3 detachable antennas
Antenna gain		2 dBi @ 2.4GHz 3 dBi @ 5 GHz
Data rate		• 802.11n: up to 450Mbps • 802.11ac: up to 1300Mbps
Frequency Band	2.4 GHz (IEEE 802.11 b/g/n)	• USA (FCC): 2.412 to 2.462 GHz • Europe (ETSI): 2.412 to 2.472 GHz • TWN (NCC): 2.412 to 2.462 GHz
	5 GHz (IEEE 802.11 a/n/ac)	• USA (FCC): 5.150 to 5.250 GHz; 5.250 to 5.350 GHz; 5.470to 5.725 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; 5.25 to 5.35 GHz; 5.470 to 5.725 GHz; 5.725 to 5.850 GHz
Receive sensitivity	2.4 GHz	11 Mbps ≤ -87 dBm 54 Mbps ≤ -74 dBm HT20 ≤ -71 dBm HT40 ≤ -68 dBm
	5 GHz	54 Mbps ≤ -74 dBm HT40, MCS23 ≤ -68 dBm VHT40, MCS9 ≤ -62 dBm HT20, MCS23 ≤ -71 dBm VHT20, MCS8 ≤ -66 dBm VHT80, MCS9 ≤ -59 dBm

Software Features

Security Service

Firewall
- ICSA-certified corporate firewall
- Routing and transparent (bridge) modes
- Stateful packet inspection
- User-aware policy enforcement
- SIP/H.323 NAT traversal
- ALG support for customized ports
- Protocol anomaly detection and protection
- Traffic anomaly detection and protection
- Flooding detection and protection
- DoS/DDoS protection

Unified Security Policy
- Unified policy management interface
- Support Content Filtering, Application Patrol, firewall (ACL/SSL)
- Policy criteria: zone, source and destination IP address, user, time

Intrusion Detection and Prevention (IDP)
- Routing and transparent (bridge) mode
- Signature-based and behavior based scanning
- Customized signatures supported
- Automatic signature updates

Application Patrol
- Granular control over the most important applications
- Identifies and controls application behavior
- Supports 30+ application categories
- Supports user authentication
- Real-time statistics and reports

Anti-Malware
- Stream-based scan engine (Stream Mode)
- HTTP, FTP, SMTP, and POP3 protocol supported
- No file size limitation
- Automatic signature updates

E-mail Security
- Transparent mail interception via SMTP and POP3 protocols
- Spam and Phishing mail detection
- Blacklist and whitelist support
- Supports DNSBL checking

URL Threat Filter
- Botnet C&C websites blocking
- Malicious URL blocking
- Supports External URL blacklist

Content Filtering
- HTTPs domain filtering
- SafeSearch support
- Whitelist websites enforcement
- URL blacklist and whitelist with keyword blocking
- Customizable warning messages and redirect URL
- Customizable Content Filtering block page
- URL categories increased to 111
- CTIRU (Counter-Terrorism Internet Referral Unit) support

IP Exception
- Provides granular control for target source and destination IP
- Supports security service scan bypass for IDP, Anti-Malware and URL Threat Filter

VPN

IPSec VPN
- Key management: IKEv1 (x-auth, mode-config), IKEv2 (EAP, configuration payload)
- Encryption: DES, 3DES, AES (256-bit)
- Authentication: MD5, SHA1, SHA2 (512-bit)
- Perfect forward secrecy (DH groups) support 1, 2, 5, 14, 15-18, 20-21
- PSK and PKI (X.509) certificate support
- IPSec NAT traversal (NAT-T)
- Dead Peer Detection (DPD) and relay detection
- VPN concentrator
- Route-based VPN Tunnel Interface (VTI)
- VPN high availability (Failover, LB)
- GRE over IPSec
- NAT over IPSec
- L2TP over IPSec
- Zyxel VPN client provisioning
- Support iOS L2TP/IKE/IKEv2 VPN client provision

SSL VPN
- Supports Windows and Mac OS X
- Supports full tunnel mode
- Supports 2-Factor authentication

Networking

WLAN Management
- Supports AP Controller (APC) version 3.60
- 802.11ax Wi-Fi 6 AP and WPA3 support
- 802.11k/v/r support

- Wireless L2 isolation
- Supports auto AP FW update
- Scheduled WiFi service
- Dynamic Channel Selection (DCS)
- Client steering for 5 GHz priority and sticky client prevention
- Auto healing
- Customizable captive portal page
- WiFi Multimedia (WMM) wireless QoS
- CAPWAP discovery protocol
- Multiple SSID with VLAN
- Supports ZyMesh
- Support AP forward compatibility
- Rogue AP Detection

Mobile Broadband
- WAN connection failover via 3G and 4G* USB modems
- Auto fallback when primary WAN recovers

IPv6 Support
- Dual stack
- IPv4 tunneling (6rd and 6to4 transition tunnel)
- SLAAC, static IP address
- DNS, DHCPv6 server/client
- Static/Policy route
- IPSec (IKEv2 6in6, 4in6, 6in4)

Connection
- Routing mode, bridge mode and hybrid mode
- Ethernet and PPPoE
- NAT and PAT
- NAT Virtual Server Load Balancing
- VLAN tagging (802.1Q)
- Virtual interface (alias interface)
- Policy-based routing (user-aware)
- Policy-based NAT (SNAT)
- GRE
- Dynamic routing (RIPv1/v2 and OSPF, BGP)
- DHCP client/server/relay
- Dynamic DNS support
- WAN trunk for more than 2 ports
- Per host session limit
- Guaranteed bandwidth
- Maximum bandwidth
- Priority-bandwidth utilization
- Bandwidth limit per user
- Bandwidth limit per IP
- Bandwidth management by application
- Link Aggregation support*1

Management

Authentication
- Local user database
- External user database: Microsoft Windows Active Directory, RADIUS, LDAP
- IEEE 802.1x authentication
- Captive portal Web authentication
- XAUTH, IKEv2 with EAP VPN authentication
- IP-MAC address binding
- SSO (Single Sign-On) support
- Supports 2-factor authentication with Google Authenticator as the second factor for administrator account

System Management
- Role-based administration
- Multi-lingual Web GUI (HTTPS and HTTP)
- Command line interface (console, web console, SSH and telnet)
- SNMP v1, v2c, v3
- System configuration rollback
- Configuration auto backup
- Firmware upgrade via FTP, FTP-TLS and Web GUI
- New firmware notify and auto upgrade
- Dual firmware images
- Cloud CNM SecuManager

Logging and Monitoring
- Comprehensive local logging
- Syslog (to up to 4 servers)
- Email alerts (to up to 2 servers)
- Real-time traffic monitoring
- Built-in daily report
- Cloud CNM SecuReporter

*: For specific models supporting the 3G and 4G dongles on the list, please refer to the Zyxel product page at 3G dongle document

*1: Supported models USG FLEX 500/700

Access Point Compatibility List

Product	Unified AP		Unified Pro AP	
Models	• NWA5301-NJ • NWA5121-NI • NWA5123-AC HD • NWA5123-AC • NWA5123-NI	• WAC5302D-S • WAX510D • WAC5302D-Sv2* • WAC500* • WAC500H*	• WAC6103D-I • WAC6503D-S • WAC6502D-S • WAC6303D-S • WAC6553D-E	• WAC6552D-S • WAC6502D-E • WAX650S • WAX610D*
Functions				
Central management	Yes		Yes	
Auto provisioning	Yes		Yes	
Data forwarding	Local bridge		Local bridge/Data tunnel	
ZyMesh	Yes		Yes	

*: From APC3.0, commercial gateways supporting APC technology are able to recognize APs with FW release higher than APC3.0 as Forward Compatible APs. Resellers can introduce newly-available Zyxel APs with basic features supported without upgrading any new controller firmware.

Accessories

SecuExtender Software

Item	Description	Supported OS
IPSec VPN Client*	IPSec VPN client software for the ZyWALL and USG Series with Easy VPN for zero configuration remote access	• Windows Server 2016 • Windows Server 2019 • Windows 7 (32/64-bit) • Windows 8 (32/64-bit) • Windows 10 (32/64-bit)
SSL VPN Client*	Secured VPN connection between PC/MAC and ZyWALL Firewall	• Windows 7 (32/64-bit) • Windows 8 (32/64-bit) • Windows 10 (32/64-bit) • MacOS 10.14

*: A 30-day trial version of IPSec VPN client and SSL VPN client for MAC OS can be downloaded from official Zyxel website. To continue using the application, please contact your regional sales representatives and purchase a commercial license for the application.

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: 12V DC, 5A 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

*: 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	LC	1310 nm	10 km/ 10936 yd	Single Mode	Yes
SFP-SX-D	Gigabit	LC	850nm	550 m/ 601 yd	Multi Mode	Yes
SFP-BX1310-10-D*[1]	Gigabit	LC	1310 nm(TX) 1490 nm(RX)	10 km/ 10936 yd	Single Mode	Yes
SFP-BX1490-10-D*[1]	Gigabit	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.