





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

The latest USG FLEX series provides one single management platform on the cloud while expanding and strengthening the protection from firewalls to access points with automatic responses. The newly designed USG FLEX Series is capable of minimizing computing power usage and maximizing firewall performance, delivering up to 5x UTM performance with cloud flexibility and collaborative protection to help connect and secure small or mid-sized business users.

Benefits

Nebula together

USG FLEX firewalls, the new addition to the Nebula cloud management family, strongly empowers the full-blown Zyxel security matrix in Nebula, further optimizing Nebula with holistic security and protection for SMB business networks. Zyxel provides a centralized provisioning security policy to the remote workforce from Nebula and traffic shaping eliminating the network bottleneck to fuel the best business productivity.

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



Flexibility to adapt to on-premises or Nebula cloud management



Gold Security Pack unlocks Sandboxing and Reputation Filter



High assurance multi-layered protection



DNS and URL content filter ensures the web security



Device Insight provides better visibility and control



Automatically contains threats at the network edge



Secure WiFi guarantees remote work security



Add two-factor authentication for an extra layer of protection



WiFi 6 (802.11ax) dual-radio speeds up to 1800 Mbps

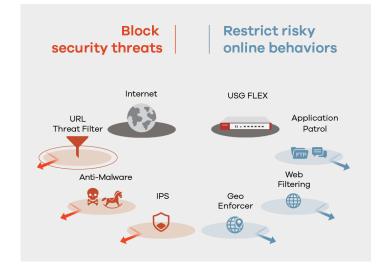
Zero trust security made easy for SMBs

USG FLEX series is your network security ally that leverages AI security cloud to operate multi-layered protection such as anti-malware, DNS/IP/URL filtering, IPS, and application patrol. Our multiple OS supported SecuExtender easily extends the same security outside network premise to remote employees that are on the go. USG FLEX series makes zero trust security easy for small to mid-sized business users.



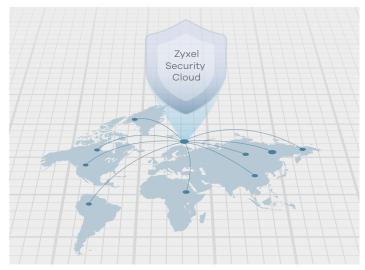
High assurance multi-layered protection

USG FLEX is designed with multi-layer protection against multiple types of threats from in and out. Multiple security services empower you to restrict users' inappropriate application usage or web access. Zyxel offers leading-industry DNS content filter, eliminating blind spots in all encrypted traffic with TLS 1.3 without the need to deploy SSL inspection. All together safeguarding your network without any unattended gaps.



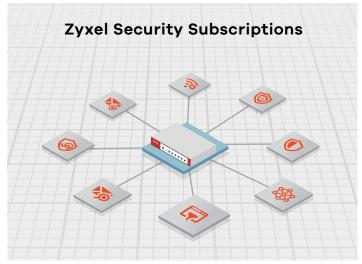
Best threat intelligence alliance

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.



Simplified and unified licensing experience

We know the experience from license purchase and renewals are equally important to our partners. We've optimized the licensing management platform and brought a consistent migration path between on-premise and our cloud platform. We make sure our partners can quickly adapt to a secure environment without the hassle but retaining the flexibility for those who need to practice the same security across networks scenarios.



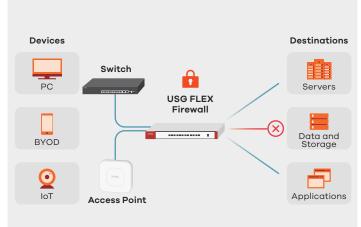
Safeguarding remote connectivity to your corporate network

Businesses striking a balance on productivity and security protection becomes a priority with growing number of devices. Whether it is a wired, wireless, or a IoT device, the Secure WiFi service is used to build a secure L2 tunnel for Work-From-Home user to extend the working experience easily and securely, as if you were in the office with the safety of both two-factor authentication and secure tunnel, which boosts up productivity and eases IT support. The Secure WiFi service also unlocks the number of managed APs to maximum for the USG FLEX firewall.



Deep Insights into all your devices

Device insight gives you more visibility of your networks including wired, wireless, BYOD, and IoT devices. You can create access policy with device contextual such as OS version or device category to enforce network segmentation. This reduces the attack surface and prevents threats from spreading. It also helps SMB(s) reduce time spent on investigation. Continuing with our goal of providing our customers with increased visibility, Zyxel SecuReporter gives your organization comprehensive endpoint inventory dashboard.



Level up security with 2FA network access

Password is not enough to secure your network access. You need a second form of authentication to ensure unauthorized users can't access your company's databases, email accounts and more. Zyxel Two-Factor Authentication allows your organizations to authenticate the identities of users accessing your networks through remote desktops and personal mobile devices.

Stay ahead of threats with CDR

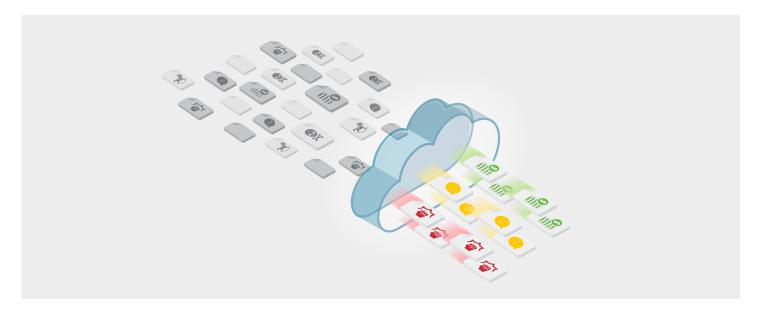
Collaborative Detection & Response (CDR) is used to identify threats and risks posed in the more complex organization workforce, workload, and workplace. USG FLEX firewalls to Nebula provides network admins with a rule-based security policy. The firewalls detect a threat on any of the connected clients and will sync with the Nebula control center, then automatically respond to cyber threats and contain the device(s) at the edge (Wireless Access Point) of your network. It is a perfect fit for IT to address the requirements of a decentralized network infrastructure and provide automatic protection.





Comprehensive web filtering service

USG FLEX Firewall delivers enhanced web filtering functionality and security through its powerful combination of both reputation and category-based filtering. The dynamic content categorization analyzes the content of a previously unknown website and domain and determines if it belongs to an undesirable category including gambling, pornography, games, and many others. Integrate a newly added DNS content filter into network firewalls to enforce Google SafeSearch, enhancing web filtering functionality. This combination ensures automatic filtering of inappropriate content from search results across all browsers and client devices, even for websites deploying ESNI, where traditional URL filtering methods may fail to identify the destination domain. This comprehensive approach enhances workplace safety and security by effectively blocking access to potentially harmful websites.

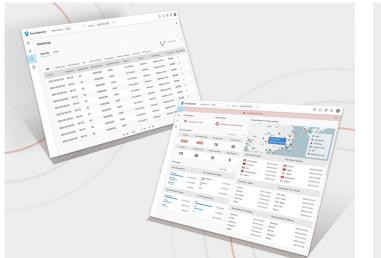


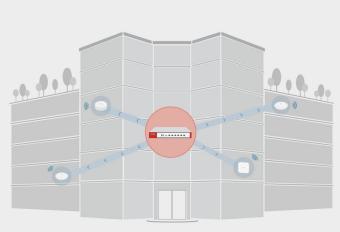
Analytics report and enhanced insights

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

We also provide Wireless Health Monitor giving you visibility into the connection state of client and access point issues, allowing network administrators to easily troubleshoot issues.





License Service

- Applicable on cloud mode

Device Purchase

	Device with License*	Device Only
Gold Security Pack	• •	
UTM Security Pack*1		
Hospitality Pack		No License
Nebula Pro Pack ^{*2}		Included*2
Nebula Plus Pack		
Secure WiFi		
* - (),)		

*: Default bundle with Gold Security Pack is only applicable on USG FLEX 100/100AX/100W/200/500/700

*1: Gold Security Pack gives additional 30-day trial of service on top of its formal 1-year license duration.

*2: Without Gold Security Pack you can also purchase licenses later. However the bundle option is highly advisable with lower total costs and seamless protection. Pay less and secure more!

License Purchase

	License Pack	Single License
Gold Security Pack*	• •	
UTM Security Pack*	• •	-
Hospitality Pack ^{*1}	•	 Web Security Anti Malware
Nebula Pro Pack	•	 SecuReporter
Nebula Plus Pack	•	-
Secure WiFi	• •	-

*: Only applicable on USG FLEX 100/100AX/100W/200/500/700.

*1: Only applicable on USG FLEX 200/500/700.

License Pack

Service	Gold Security Pack*	UTM Security Pack	Hospitality Pack
Sandboxing	• •		
Reputation Filter	• •		
Web Filtering*1	• •	• •	
Anti-Malware	• •	• •	
IPS	• •	• •	
Application Patrol	• •	• •	
SecuReporter	• •	• •	
Collaborative Detection & Response	• •	• •	
Network Premium	•	•	
Email Security	•	•	
Security Profile Sync	•	•	
Hotspot Management service*2			•
Concurrent Device Upgrade*3			•
Nebula Pro Pack Services	•		
Secure WiFi	• •		

*: The Gold Security Pack supports monthly or yearly automatic renewal subscription, which provides continuous protection without interruption.

*1: URL Threat Filter is included and automatically available when Web Filtering is activated.

*2: Hotspot Management is only applicable on USG FLEX 200/500/700

*3: Only applicable on USG FLEX 500/700 to allow additional connected clients.

Specifications

Model		USG FLEX 100*11	USG FLEX 100AX	USG FLEX 100W
Product photo				
		240400		
Hardware Spec	ifications			
WiFi standard		N/A	802.11 ax/ac/n/g/b/a	802.11 a/b/g/n/ac
10/100/1000 Mb	ops RJ-45 ports	3 x LAN/DMZ, 1 x WAN,	3 x LAN/DMZ, 1 x WAN,	3 x LAN/DMZ, 1 x WAN,
LICE 2.0 porto		1 x OPT	1 x OPT 1	1 x SFP, 1 x OPT
USB 3.0 ports Console port		ı Yes (RJ-45)	T Yes (RJ-45)	1 Yes (RJ-45)
Rack-mountab	le	N/A	N/A	N/A
Fanless		Yes	Yes	Yes
	ty & Performance*1	100	105	100
	oughput (Mbps)*2	900	900	900
VPN throughpu		270	270	270
VPN IMIX throu		100	100	100
IPS throughput	• · · ·	540	540	540
Anti-Malware t	hroughput (Mbps)*4	360	360	360
UTM throughpu	ıt	360	360	360
(Anti-Malware	and IPS)(Mbps)*4			
	urrent sessions*5	300,000	300,000	300,000
Recommended IPsec VPN tunn	gateway-to-gateway Jels	20	20	20
Max. concurren	nt IPsec VPN tunnels*6	50	50	50
VLAN interface)	8	8	8
Speedtest Perf	ormance			
SPI firewall thro	oughput (Mbps)*10	848	848	848
Key Features				
Security	Sandboxing*7	Yes	Yes	Yes
Service	Web Filtering*7	Yes	Yes	Yes
	Application Patrol*7	Yes	Yes	Yes
	Anti-Malware*7	Yes	Yes	Yes
	IPS*7	Yes	Yes	Yes
	Reputation Filter*7 Geo Enforcer*7	Yes	Yes	Yes
		Yes	Yes	Yes
	SecuReporter*7 Collaborative Detection	Yes Yes	Yes Yes	Yes
	& Response ^{*7}	res	res	res
	Device Insight	Yes	Yes	Yes
	Security Profile Sync*7	Yes	Yes	Yes
	SSL (HTTPS) inspection	Yes	Yes	Yes
	2-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	Yes	Yes
	Amazon VPC	Yes	Yes	Yes

		USG FLEX 100	USG FLEX 100AX	USG FLEX 100W
Key Features				
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 &	Nebula Cloud Mode	Yes	Yes	Yes
Connectivity	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
	Burst login rate (users/30sec)	64	64	64
Power Requirem	ients			
Power input		12 V DC, 2 A max.	12 V DC, 2.5 A max.	12 V DC, 2 A max.
	sumption (Watt Max.)	12.5	24.3	12.5
Heat dissipation		42.65	55.37	42.65
Physical Specifi				
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 access	ories	 Power adapter RJ-45 - RS-232 cable for console connection 	 Power adapter with plug RJ-45 - RS-232 cable for console connection Antenna 	
Environmental S	Specifications			
Operating	Temperature	0°C to 40°C/32°F to 104°F	0°C to 40°C/32°F to 104°F	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)	766,228(at 25°C) and 426,310(at 40°C)	656,318(at 25°C) and 387,490(at 40°C)
Certifications				
EMC		FCC Part 15 (Class B), CE EMC (Class B), BSMI	FCC Part 15 (Class B), IC EMC (Class B), CE EMC (Class B), RCM (Class B), BSMI	FCC Part 15 (Class B), CE EMC (Class B), BSMI
Safety		LVD (EN60950-1), BSMI	LVD (EN62368-1), BSMI	LVD (EN60950-1), BSMI

Model		USG FLEX 200	USG FLEX 500	USG FLEX 700
Product photo	D		2744. 1917	
Hardware Spe				
10/100/1000 M	Ibps RJ-45 ports	4 x LAN/DMZ,	7 (configurable),	12 (configuratble),
		2 x WAN, 1 x SFP	1 x SFP (configurable)	2 x SFP (configurable)
USB 3.0 ports		2	2	2
Console port		Yes (DB9)	Yes (DB9)	Yes (DB9)
Rack-mounta	ble	Yes	Yes	Yes
Fanless		Yes	N/A	N/A
System Capa	city & Performance*1			
SPI firewall th	roughput (Mbps)*2	1,800	2,300	5,400
VPN throughp	out (Mbps)* ³	450	810	1,100
VPN IMIX thro	ughput (Mbps)*³	160	240	550
IPS throughpu	ut (Mbps)*4	1,100	1,500	2,000
	throughput (Mbps)*4	570	800	1,450
UTM throughp	out (Anti-Malware and IPS)(Mbps)*4	550	800	1,350
	current sessions*5	600,000	1,000,000	1,600,000
Recommende IPsec VPN tun	d gateway-to-gateway Inels	50	150	250
Max. concurre	ent IPsec VPN tunnels*6	100	300	500
VLAN interfac	ce	16	64	128
Speedtest Per	formance			
SPI firewall th	roughput (Mbps)*10	931	935	934
Key Features				
Security	Sandboxing*7	Yes	Yes	Yes
Service	Web Filtering* ⁷	Yes	Yes	Yes
	Application Patrol*7	Yes	Yes	Yes
	Anti-Malware*7	Yes	Yes	Yes
	IPS*7	Yes	Yes	Yes
	Reputation Filter*7	Yes	Yes	Yes
	Geo Enforcer	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
	2-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	Default number of managed AP	8	8	8
Management	Recommend max. AP in 1 AP Group	20	60	200
	Recommend max. AF in LAF Oroup			
	Secure WiFi Service*7	Yes	Yes	Yes
			Yes 18	Yes 130

Model		USG FLEX 200	USG FLEX 500	USG FLEX 700
Key Features				
Management &	Nebula Cloud Mode	Yes	Yes	Yes
Connectivity	Nebula Cloud Monitoring Mode	Yes	Yes	Yes
	Device HA Pro	N/A	Yes	Yes
	Link Aggregation (LAG)	N/A	Yes	Yes
	Hotspot Management*7	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	200/500	500/2000
	Burst login rate (users/30sec)	200	220	220
Power Requirem	nents			
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 con	sumption (Watt Max.)	13.3	24.1	46
Heat dissipation (BTU/hr)		45.38	82.23	120.1
Physical Specifi	cations			
Item	Dimensions	272 x 187 x 36/	300 x 188 x 44/	430 x 250 x 44/
	(WxDxH)(mm/in.)	10.7 x 7.36 x 1.42	16.93 x 7.4 x 1.73	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	427 x 247 x 73/	351 x 152 x 245/	519 x 392 x 163/
_	(WxDxH)(mm/in.)	16.81 x 9.72 x 2.87	13.82 x 5.98 x 9.65	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 access	sories	Power adapterRack mounting kit	 Power adapter Power cord Rack mounting kit 	Power cordRack mounting kit
Environmental S	Specifications			
Operating	Temperature	0°C to 40°C/32°F to 104	4°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	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), BSM		LVD (EN60950-1), BSMI
*1: Actual performance conditions, and ac *2: Maximum through *3: VPN throughput n packets); IMIX: UDF and 1424 byte pacl	mware ZLD5.40 or later. ce may vary depending on system c tivated applications. nput based on RFC 2544 (1,518-byte l neasurement are based on RFC 254 P throughput based on a combinatio ket sizes. Mode) and IDP throughput measure	*5: M onfiguration, network te: 6: In UDP packets). *7: W 4 (1,424-byte UDP *8: Th on of 64 byte, 512 byte, *9: W *10: T	aximum sessions measured using the sting tool. cluding Gateway-to-Gateway and Clie ith Zyxel service license to enable or ex nis is the recommend maximum numb (ith Hotspot Management license supp The Speedtest result is conducted with is subject to fluctuate due to quality of	industry standard IXIA IxLoad ent-to-Gateway. ktend the feature capacity. er of concurrent logged-in device ort. 1 Gbps WAN link in real world anc

*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.

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 3 x LAN/DMZ, 1 x WAN, 1 x OPT.

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Wireless Specifications

Model		USG FLEX 100AX	USG FLEX 100W
Standard compliance		802.11 ax/ac/n/g/b/a	802.11 a/b/g/n/ac
Wireless frequency		2.4/5 GHz	2.4/5 GHz
Radio		2	2
SSID number		4	4
Maximum transmit	US (FCC) 2.4 GHz	29.8 dBm, 2 antennas	25 dBm, 3 antennas
power (Max. total	US (FCC) 5 GHz	32.6 dBm, 2 antennas	25 dBm, 3 antennas
channel)	EU (ETSI) 2.4 GHz	19.93 dBm (EIRP), 2 antennas	20 dBm (EIRP), 3 antennas
	EU (ETSI) 5 GHz	22.99 dBm (EIRP), 2 antennas	20 dBm (EIRP), 3 antennas
No. of antenna		2 detachable antennas	3 detachable antennas
Antenna gain		3 dbi @ 2.4 GHz/5 GHz	2 dBi @ 2.4 GHz 3 dBi @ 5 GHz
Data rate		• 2.4 GHz: up to 600 Mbps • 5 GHz: up to 1200 Mbps	• 2.4 GHz: up to 300 Mbps • 5 GHz: up to 866 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 	 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 	 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 ≤ -99 dBm • 54 Mbps ≤ -95 dBm • HT20, MCS7 ≤ -90 dBm • HT40, MCS7 ≤ -86 dBm	• 11 Mbps ≤ -87 dBm • 54 Mbps ≤ -74 dBm • HT20 ≤ -71 dBm • HT40 ≤ -68 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 	 54 Mbps ≤ -74 dBm HT20, MCS23 ≤ -71 dBm HT40, MCS23 ≤ -68 dBm VHT20, MCS8 ≤ -66 dBm VHT40, MCS9 ≤ -62 dBm VHT80, MCS9 ≤ -59 dBm

*: Maximum transmit power is limited by local regulatory settings.

Software Features

Security Service

Firewall

- Routing and transparent (bridge) modes
- Stateful packet inspection
- SIP NAT traversal
- H.323 NAT traversal*2
- 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)
- Firewall: SSL inspection*2
- Policy criteria: source and destination IP address, user group, time
- Policy criteria: zone, user*2

Intrusion Prevention System (IPS)

- Support both intrusion detection and prevention
- Support allowlist (whitelist) to deal with false positives involving known benign activity^{*2}
- Support rate-based IPS signatures to protect networks against application-based DoS and brute force attacks^{*2}
- Signature-based and behavior-based scanning
- Support exploit-based and vulnerability-based protection
- Support Web attacks like XSS and SQL injection
- Streamed-based engine
- Support SSL inspection*2
- Inspection on various protocols: HTTP, FTP, SMTP, POP3, and IMAP
- Inspection on various protocols: HTTPs, FTPs, SMTPs, POP3s, and IMAPs*²
- \bullet Customizable signature & protection profile*2
- Automatic new signature update mechanism support

Application Patrol

- Smart single-pass scanning engine
- Identifies and control thousands of applications and their behaviors

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• Support up to 25 application categories

- Granular control over the most popular applications
- Prioritize and throttle application
- Real-time application statistics and reports
- Identify and control the use of DoH (DNS over HTTPS)

Anti-Malware

- High performance query-based scan engine (Express Mode)
- Works with over 30 billion of known malicious file identifiers and still growing
- Multiple file types supported
- Stream-based scan engine (Stream Mode)
- No file size limitation
- HTTP, FTP, SMTP, and POP3 protocol supported
- SSL inspection support*2
- Automatic signature update

Email Security*2

- Transparent mail interception via SMTP and POP3 protocols
- Spam and Phishing mail detection
- Block and Allow List support
- Supports DNSBL checking

URL Threat Filter

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

Web Filtering

- HTTPs domain filtering
- SafeSearch support: Google, YouTube, and Microsoft Bing*2
- Allow List websites enforcement
- URL Block and Allow List 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
- Support DNS base filtering (domain filtering)

Geo Enforcer

- Geo IP blocking
- Geographical visibility on traffics statistics and logs
- IPv6 address support*2

IP Exception

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

Device Insight

- Agentless scanning for discovery and classification of devices
- View all devices on the network, including wired, wireless, BYOD, IoT, and SecuExtender (remote endpoint) on SecuReporter
- Visibility of network devices (switches, wireless access points, firewalls) from Zyxel or 3rd party vendors

Collaborative Detection & Response (CDR)

- Support Alert/Block/Quarantine containment actions
- Prevent malicious wireless clients network access with blocking feature
- Customizable warning messages and redirect URL
- Bypass by IP or MAC address with exempt list

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*2
- NAT over IPSec
- L2TP over IPSec
- SecuExtender Zero Trust VPN Client
- Support native Windows, iOS/macOS and Android (StrongSwan) client provision*²
 Support 2FA Email/SMS*²

Support 2FA Google Authenticator

Networking

Secure WiFi

- Secure Tunnel for Remote AP
- L2 access between home office and HQ (Secured Tunnel)
- GRE Tunnel for Campus AP
- Enforcing 2FA with Google Authenticator
- WPA2 Enterprise (802.1x) supported
- Wireless Storm Control
- Applicable regardless of the On premise/Nebula-managed mode of the USG FLEX

WLAN Management*2

- Supports AP Controller (APC) version 4.00
- 802.11ax WiFi 6 AP and WPA3 support
- 802.11k/v/r support
- 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

Multi-WAN

- Multi-WAN support on USG FLEX 200 and above
- Dual-WAN support on USG FLEX 100/100W/100AX (with OPT port)

Mobile Broadband*2

• WAN connection failover via 3G and 4G* USB modems

Datasheet ZyWALL USG FLEX 100/100AX/100W/200/500/700 12

Auto fallback when primary WAN
 recovers

IPv6 Support*2

- 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
- \bullet Bridge mode and hybrid mode *2
- Ethernet and PPPoE
- NAT and PAT
- NAT Virtual Server Load Balancing
- VLAN tagging (802.1Q)
- Virtual interface (alias interface)
- Policy-based routing (user-aware)*2
- Policy-based NAT (SNAT)
- GRE*2
- \bullet Dynamic routing (RIPv1/v2 and OSPF, BGP)*2
- 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*2
- Bandwidth limit per IP
- Bandwidth management by application
- Link Aggregation support^{*1*2}

Management

Nebula Cloud Mode

- Unlimited Registration & Central Management (Configuration, Monitoring, Dashboard, Location Map & Floor Plan Visual) of Nebula Devices
- Zero Touch Auto-Deployment of Hardware/Configuration from Cloud
- Over-the-air Firmware Management
- Central Device and Client Monitoring (Log and Statistics Information) and Reporting
- Security Profile Sync

Nebula Cloud Monitoring Mode

- Monitor device on/off status
- Firmware upgrade operation

- Manage firewall licenses
- Access remote GUI (requires Nebula Pro Pack)
- Backup and restore firewall configurations (requires Nebula Pro Pack)

Authentication

- Local user database
- External user database: Microsoft Windows Active Directory, RADIUS, LDAP
- Cloud user database*3
- IEEE 802.1x authentication
- Captive portal Web authentication
- XAUTH, IKEv2 with EAP VPN
- authenticationIP-MAC address binding
- SSO (Single Sign-On) support^{*2}
- Supports 2-factor authentication
- (Google Authenticator, SMS*2/Email*2)

System Management

- Role-based administration
- Multi-lingual Web GUI (HTTPS and HTTP)
- Command line interface (console, web console, SSH and telnet)*2
- SNMP v1, v2c, v3
- System configuration rollback^{*2}
- Configuration auto backup^{*2}
- Firmware upgrade via FTP, FTP-TLS^{*2}
- Firmware upgrade via Web GUI*2
- New firmware notify and auto upgrade
- Dual firmware images

Logging and Monitoring

• Built-in daily report

- Comprehensive local logging
- Syslog (to up to 4 servers)

Cloud CNM SecuReporter

Email alerts (to up to 2 servers)Real-time traffic monitoring

*: For specific models supporting the 3G and

product page at 3G donale document

*1: Supported models USG FLEX 500/700

*2: Only supported in On Premises Mode

*3: Only supported in Nebula Cloud Mode

4G dongles on the list, please refer to the Zyxel

Access Point Compatibility List

Secure Tunnel for Remote AP

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

Managed AP Service

Product	Unified AP		Unified Pro AP	
Models	 NWA5123-AC NWA5123-AC HD* WAC5302D-S WAC5302D-Sv2 WAC500* 	 WAC500H* WAX300H WAX510D* WBE530* WBE510D* 	 WAX620D-6E WAX640S-6E WAC6103D-I WAC6303D-S WAC6502D-E WAC6502D-S WAC6503D-S WAC6552D-S WAC6553D-E 	 WAX610D WAX630S WAX650S WAX655E WBE660S WBE630S
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 Mode	I		
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.) 		• VPN100	 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	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.

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