

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

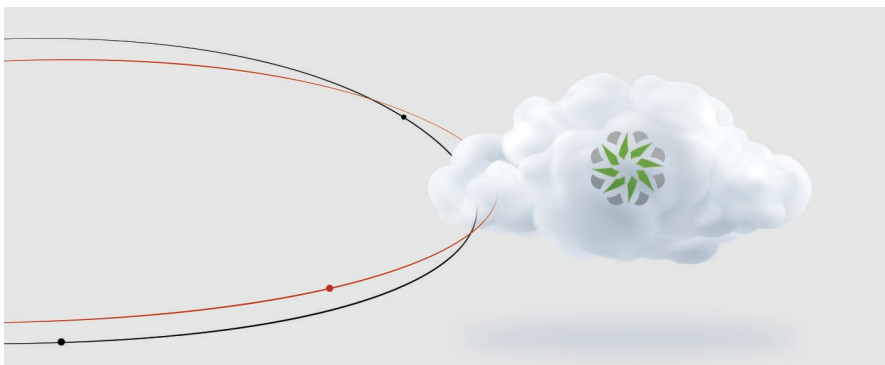
USG FLEX Firewall

The latest USG FLEX 100 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.



-  Flexibility to adapt to on-premises or Nebula cloud management
-  Precise detection with cloud query express mode
-  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

Zero trust networks security

Remote working is here to stay, USG FLEX series applies the principles of zero trust access. It ensures the same security controls are applied to HQ, branch offices, home, or wherever your remote workers reside. 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.



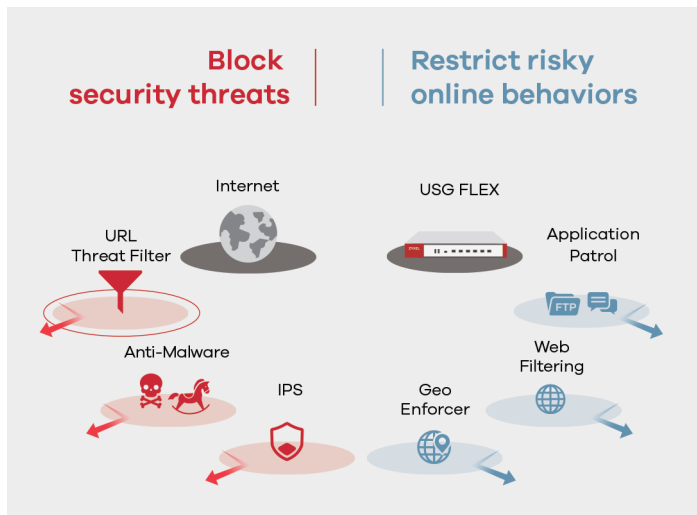
Best threat intelligence alliance

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.



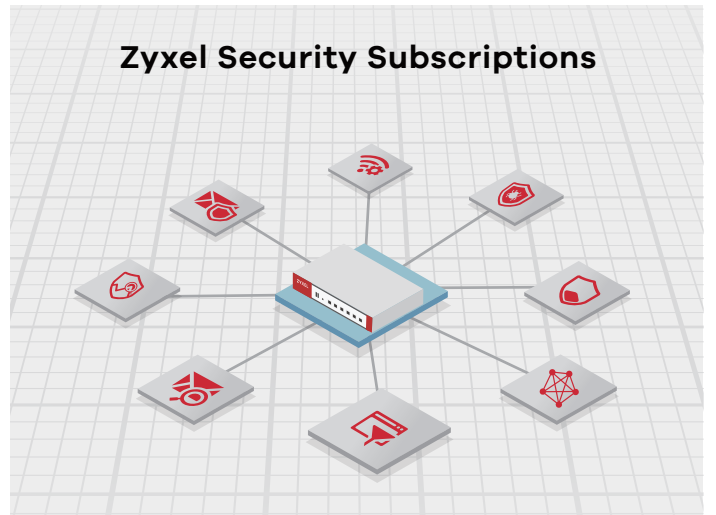
High assurance multi-layered protection

USG FLEX is designed with multi-layer protection against multiple types of threats from in and out. Multiple security services empower you to restrict users' inappropriate application usage or web access. Zykel 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.



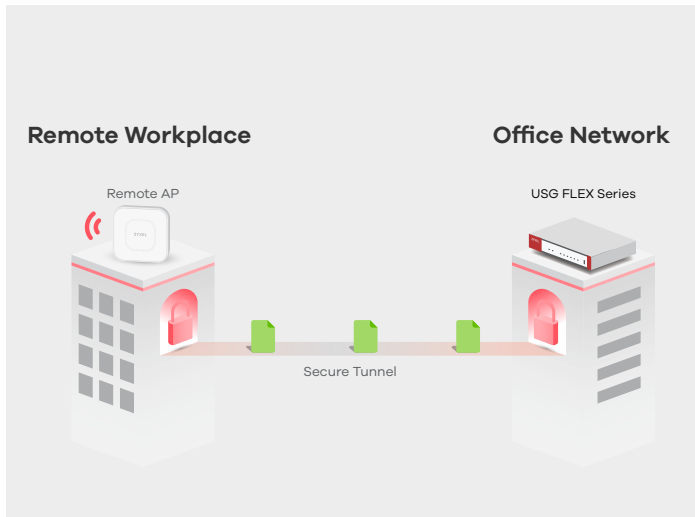
Simplified and unified licensing experience

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.



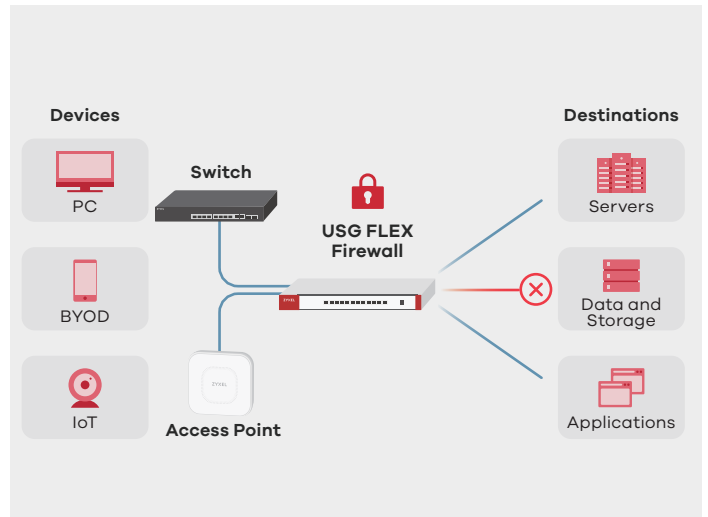
Safeguarding remote connectivity to your corporate network

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.



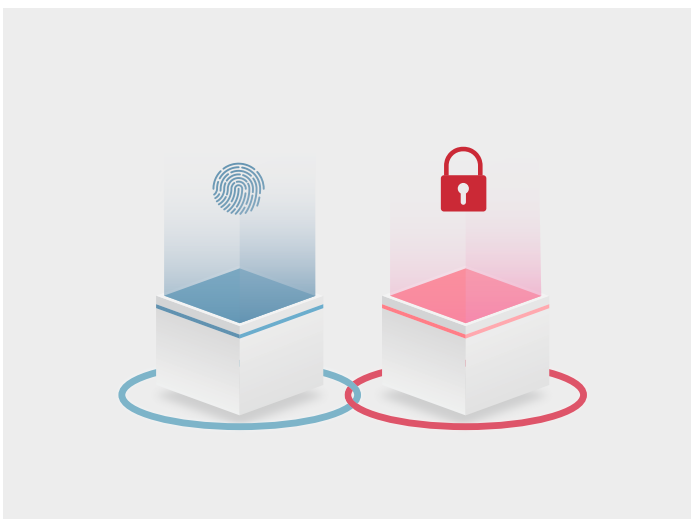
Deep Insights into all your devices

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.



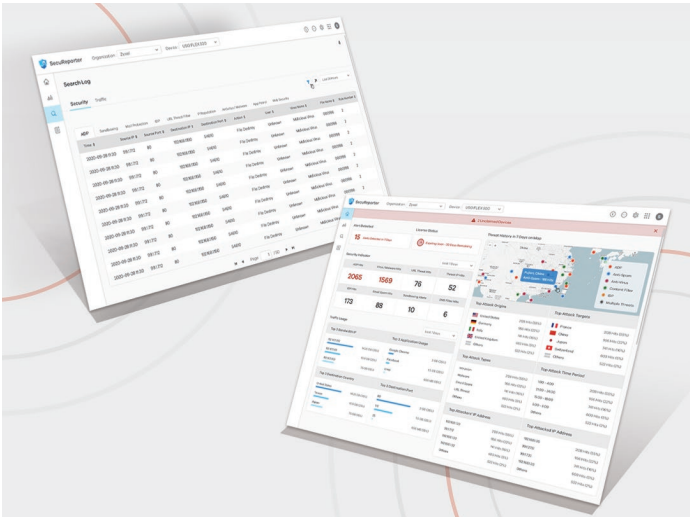
Comprehensive web filtering service

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. A newly added DNS content filter offers a better approach to inspect web access, particularly when the website is deploying ESNI (Encrypted Server Name Indication) where the traditional URL filtering failed to identify the destination domain.



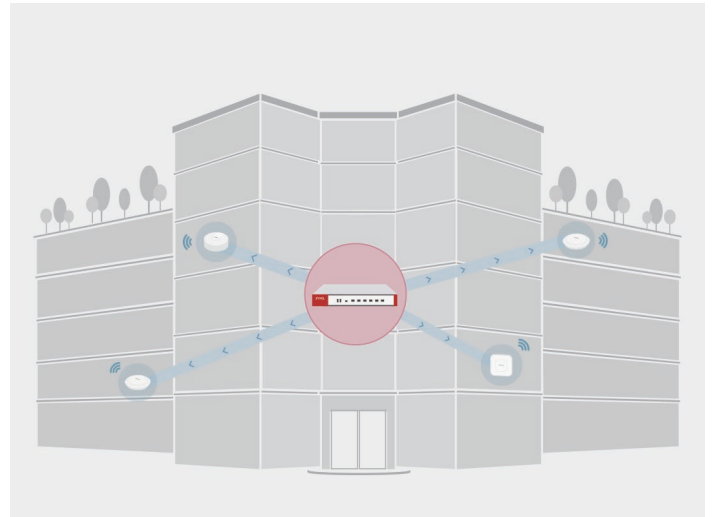
Analytics report and enhanced insights

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.



Hardware Included License

● Nebula Feature Included ● On Premises Feature Included

| | | First Purchase* | | Renewal Option | |
|--------------------|------------------------------------|-----------------|----------------------|----------------|---------------------------|
| | Service/Component | On Premises | Nebula Cloud | Pack License | Single License |
| UTM | Web Filtering | ● | ● | ● ● | ● |
| | Anti-Malware | ● | ● | ● ● | ● |
| | IPS | ● | ● | ● ● | - |
| | Application Patrol | ● | ● | ● ● | - |
| | SecuReporter | ● | ● | ● ● | - |
| | Collaborative Detection & Response | ● | ● | ● ● | ● SecuReporter Premium |
| | Email Security | ● | - | ● ● | - |
| | Security Profile Sync | - | ● | ● ● | - |
| Hospitality | Hotspot Management service*1 | ● | - | ● | - |
| | Concurrent Device Upgrade*2 | ● | - | ● | - |
| Nebula | Nebula Professional Pack | - | Purchased UTM Pack*3 | ● | - |
| | Nebula Plus Pack | - | - | ● | - |
| Secure WiFi | Secure tunnel & Managed AP Service | - | - | - | ● ● |

* : UTM Pack Included: 30 Days Trial+1Year / Device Only: 30 Days Trial




*1: Hotspot Management is available on USG FLEX 200/500/700 only

*2: Allowing additional connected clients is available to USG FLEX 500/700 only



*3: Nebula Professional Pack will only be offered to users who have purchased UTM Pack

| License Service | Feature |
|------------------------------------|---|
| UTM License | |
| Web Filtering | Block access to malicious or risky web sites |
| IPS | 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 |
| Collaborative Detection & Response | Automatically contain threats at the network edge |
| Email Security | Fast detection to block spam/phishing mail with malicious contents |
| SecuReporter | Cloud-based intelligent analytics and report |
| Security Profile Sync | An easy-to-use tool to help business sync up security profiles across multiple networks |
| Hospitality License | |
| 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 |
| Security Features | | | |
| Anti-Malware*7 | Yes | Yes | Yes |
| IPS*7 | Yes | Yes | Yes |
| Application Patrol*7 | Yes | Yes | Yes |
| Email Security | Yes | Yes | Yes |
| Web filtering*7 | Yes | Yes | Yes |
| SecuReporter Premium*7 | Yes | Yes | Yes |
| Collaborative Detection & Response*7 | Yes | Yes | Yes |
| SSL (HTTPS) Inspection | Yes | Yes | Yes |
| Device Insight | Yes | Yes | Yes |
| 2-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*7 | Yes | Yes | Yes |
| Maximum No. of Tunnel-Mode AP | 6 | 6 | 10 |
| Maximum No. of Managed AP | 24 | 24 | 40 |

| Model | USG FLEX 100 | USG FLEX 100W | USG FLEX 200 | |
|---|--|--|--|---|
| Connectivity Management | | | | |
| Cloud-managed (Nebula) Mode | Yes | Yes | Yes | |
| Hotspot Management*7 | - | - | Yes | |
| Ticket printer support*9/ Support Qty (max.) | - | - | Yes (SP350E) / 10 | |
| Device HA Pro | - | - | - | |
| 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 | <ul style="list-style-type: none"> Power adapter RJ-45 - RS-232 cable for console connection | <ul style="list-style-type: none"> Power adapter RJ-45 - RS-232 cable for console connection | <ul style="list-style-type: none"> 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 | | |
| 10/100/1000 Mbps RJ-45 ports | 7 (configurable), 1 x SFP (configurable) | 12 (configurable), 2 x SFP (configurable) |
| USB3.0 ports | 2 | 2 |
| Console port | Yes (DB9) | Yes (DB9) |
| Rack-mountable | Yes | Yes |
| Fanless | - | - |
| System Capacity & Performance*1 | | |
| 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 | 500/2000 |
| Speedtest Performance | | |
| SPI firewall throughput (Mbps)*11 | 810 | 840 |
| Security Features | | |
| Anti-Malware*7 | Yes | Yes |
| IPS*7 | Yes | Yes |
| Application Patrol*7 | Yes | Yes |
| Email Security | Yes | Yes |
| Web filtering*7 | Yes | Yes |
| SecuReporter Premium*7 | Yes | Yes |
| Collaborative Detection & Response*7 | Yes | Yes |
| SSL (HTTPS) Inspection | Yes | Yes |
| Device Insight | Yes | Yes |
| 2-Factor Authentication | Yes | Yes |
| VPN Features | | |
| VPN | IKEv2, IPSec, SSL, L2TP/IPSec | IKEv2, IPSec, SSL, L2TP/IPSec |
| Microsoft Azure | Yes | Yes |
| Amazon VPC | Yes | Yes |
| WLAN Management | | |
| Default Number of Managed AP | 8 | 8 |
| Recommend max. AP in 1 AP Group | 60 | 200 |
| Secure WiFi Service*7 | Yes | Yes |
| Maximum No. of Tunnel-Mode AP | 18 | 130 |
| Maximum No. of Managed AP | 72 | 520 |

| Model | USG FLEX 500 | USG FLEX 700 | |
|---|--|---|--|
| Connectivity Management | | | |
| Cloud-managed (Nebula) Mode | Yes | Yes | |
| Hotspot Management*7 | Yes | Yes | |
| Ticket printer support*9/ Support Qty (max.) | Yes (SP350E) / 10 | Yes (SP350E) / 10 | |
| Device HA Pro | Yes | Yes | |
| 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 | <ul style="list-style-type: none"> • Power adapter • Power cord • Rack mounting kit | <ul style="list-style-type: none"> • 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 ZLD51 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 | | 4 | |
| 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 | | <ul style="list-style-type: none"> • 802.11n: up to 450Mbps • 802.11ac: up to 1300Mbps | |
| Frequency Band | 2.4 GHz (IEEE 802.11 b/g/n) | <ul style="list-style-type: none"> • 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) | <ul style="list-style-type: none"> • 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 Prevention System (IPS)

- Support both intrusion detection and prevention
- Support allowlist (whitelist) to deal with false positives involving known benign activity
- Support rate-based IPS signatures to protect networks against application-based DoS and brute force attacks
- 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
- Inspection on various protocols - HTTP/HTTPS, FTP/FTPs, SMTP/SMTPs, POP3/POP3s and IMAP/IMAPs
- Customizable signature & protection profile
- Automatic new signature update mechanism support

Intrusion Detection and Prevention (IDP)

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

Application Patrol

- Smart single-pass scanning engine
- Identifies and control thousands of applications and their behaviors
- Support up to 25 application categories
- Granular control over the most popular applications
- Prioritize and throttle application
- Real-time application statistics and reports

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
- Automatic signature update

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

Web 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
- Support DNS base filtering (domain filtering)

IP Exception

- Provides granular control for target source and destination IP

- Supports security service scan bypass for IDP, Anti-Malware and URL Threat Filter

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
- 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

Secure WiFi

- Secure Tunnel for Remote AP
- L2 access between home office and HQ (Secured Tunnel)
- 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

- 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

Nebula Cloud Management

- 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 Stat Information) and Reporting

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

Secure Tunnel for Remote AP

| Functions | Remote AP | Number of Tunnel Mode AP | Supported Remote AP |
|-----------------|----------------|--------------------------|--|
| ATP | ATP100(W) | 6 | <ul style="list-style-type: none"> • WAX650S • WAX610D • WAX510D • WAC500 • WAC500H |
| | ATP200 | 10 | |
| | ATP500 | 18 | |
| | ATP700 | 66 | |
| | ATP800 | 130 | |
| USG FLEX | USG FLEX100(W) | 6 | |
| | USG FLEX200 | 10 | |
| | USG FLEX500 | 18 | |
| | USG FLEX700 | 66 | |
| VPN | VPN50 | 10 | |
| | VPN100 | 18 | |
| | VPN300 | 66 | |
| | VPN1000 | 258 | |


Managed AP Service

| Product | Unified AP | Unified Pro AP | |
|---------------------------|--|---|--|
| Models | <ul style="list-style-type: none"> • NWA5301-NJ • NWA5121-NI • NWA5123-NI • NWA5123-AC • NWA5123-AC HD* | <ul style="list-style-type: none"> • WAC5302D-S • WAC5302D-Sv2 • WAC500* • WAC500H* • WAX510D* | <ul style="list-style-type: none"> • WAC6103D-I • WAC6303D-S • WAC6502D-S • WAC6503D-S • WAC6552D-S |
| | | <ul style="list-style-type: none"> • WAC6502D-E • WAC6553D-E • WAX610D • WAX630S*1 • WAX650S | |
| 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

*1: WAX630S will be available in January 2022

Service Gateway Printer

| Model | Feature | Supported Model |
|--|---|---|
| SP350E  | <ul style="list-style-type: none"> 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.) | <ul style="list-style-type: none"> 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 | Single LC | 1310 nm | 10 km/ 10936 yd | Single Mode | Yes |
| SFP-SX-D | Gigabit | Single LC | 850nm | 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.

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

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