ZYXEL
NETWORKS

USG LITE 60AX
AX6000 WiFi 6 Security Router

Meet the USG LITE 60AX, a forward-thinking appliance boasting high-performance WiFi 6 technology. Equipped with dual 2.5GbE ports, it offers a swift, intuitive setup and robust network security, ideally suited for the modern demands of small/home offices and teleworkers. The integration of WiFi 6 offers a significant leap in wireless performance, supporting your business with reliable high-speed connections.

Benefits

Subscription-free network security

Equipped with best-in-class threat management features powered by Zyxel Security Cloud, the USG LITE 60AX detects malicious network activities and prevents drive-by download of wide-spreading ransomware/malware, blocks intrusion/exploit/dark web/ads/VPN proxy and stops mail fraud & phishing. It's subscription-free, making security affordable to small business owners!

Speed. Safety. Simplicity.
Built-in WiFi 6 and Ransomware Protection

Subscription-free Security built-in as standard

Dual 2.5GbE ports for speeds beyond gigabit

AX
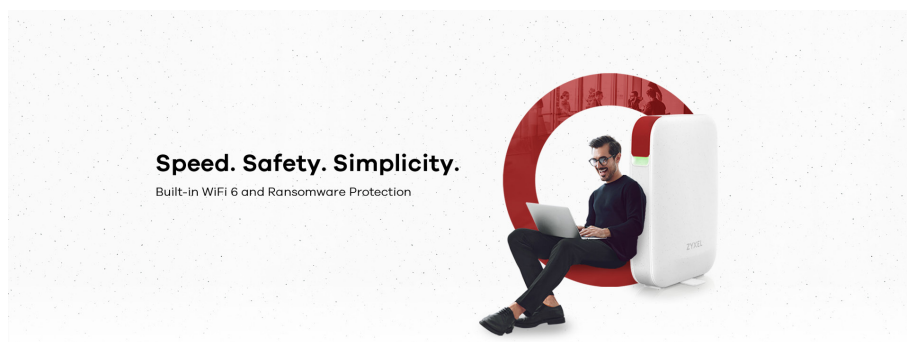**802.11**
Blazingly Fast WiFi 6 for speeds up to 6 Gbps

Simplified setup and manage with Nebula app

VPN
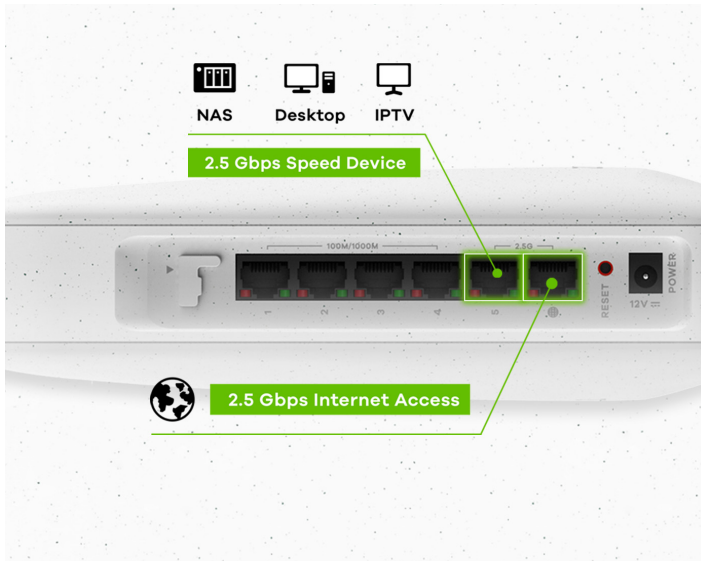VPN made easy with quick deployment

Constructed with 95% recycled plastics

nebula

Dual 2.5GbE mGig connectivity

Dual 2.5Gbps WAN/LAN ports unlock beyond gigabit speeds from your ISP, provide premium wired connections with remarkable flexibility to tailor both ports to fit your networking needs.

Fast & cloud rich features

Powered with a fast 2.0 GHz quad-core 64-bit CPU, the USG LITE 60AX boasts the performance to effortlessly manage the most demanding networks. It offers unrivaled security and application visibility in your network, while ensuring peak network performance, speeding up data transfers and improving your online experience.

Blazingly fast WiFi 6

The USG LITE 60AX's WiFi 6 dual-band radio delivers superior speed, reliability, and low latency up to 6Gbps. Zyxel's Smart Mesh technology automatically forms dynamic wireless links between USG LITE 60AX and Nebula access points, eliminating the need for complex cabling.

Connected & secured in minutes

You can be connected and secured in minutes with a few simple clicks on the Nebula mobile app. The easy step-by-step wizard guides you through the entire installation process. The intuitive app makes it easy to change settings as needed.

Secure VPN connectivity

The USG LITE 60AX allows you to quickly build a secure connection (site-to-site VPN, remote access VPN) with a few simple steps, making it easier for companies to extend their reach for remote workers like work-from-home staff or teleworkers who often require secure remote access to their head office network(s).

Easy Setup

Secure Tunnel

High Performance
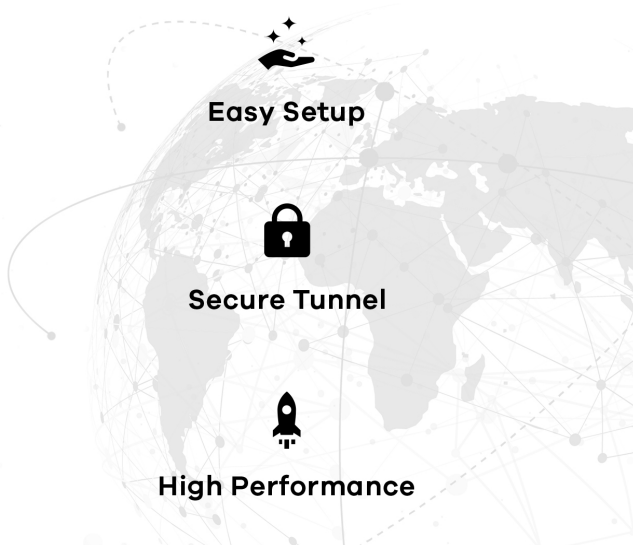
Application insight & control

The USG LITE 60AX lets you see how the devices in your network are using the internet with Nebula. This helps you figure out which applications are being used, so you can throttle or block specific applications if needed to ensure your essential applications run smoothly, keeping your business online without interruptions.

Built with nature in mind

The USG LITE 60AX eco-design incorporates up to 95% post-consumer-recycled (PCR) plastics in its chassis, underlining our commitment to sustainability. At Zyxel, we've reduced packaging volume by 36.7%, eliminated color sleeves, and switched to 100% halogen-free or soy-based inks for box printing. These efforts have resulted in a 47.7% increase in units per pallet and a reduced carbon footprint.

95%
Post-consumer-recycled plastics

ZYXEL

Advance your defense with Elite Pack

The Elite Pack license offers extensive Web Filtering across 120+ categories and millions of domains. It also activates advanced Nebula Pro features and enhances protection against ransomware with Zyxel's security cloud technologies.

Elite Pack Comparison

	Subscription Free	Elite Pack (1MO / 1YR / 3YR)
Ransomware / malware prevention	●	●
Intrusion Blocker	●	●
Dark Web Blocker	●	●
Stop mail fraud & phishing	●	●
Block Ads	●	●
Block VPN proxy	●	●
Firewall	●	●
Country Restriction (GeoIP)	●	●
Allow list / Blocklist	●	●
Traffic management (applications & clients)	●	●
Real-time threat intelligence		●
Web Filtering (DNS)		●
Nebula Pro Pack - Advanced feature set		●

Specifications

Wireless		
Standard		IEEE802.11 ax/ac/n/g/b/a
MIMO		MU-MIMO
Wireless speed	2.4 GHz	1150 Mbps
	5 GHz	4800 Mbps
Frequency band	2.4 GHz	USA (FCC): 2.412 to 2.462 GHz Europe (ETSI): 2.417 to 2.472 GHz

	5 GHz	USA (FCC): 5.15 to 5.25;5.25 to 5.35 GHz
		     5.47 to 5.725 GHz;5.725 to 5.895 GHz
		Europe (ETSI): 5.15 to 5.25 GHz;5.25 to 5.35GHz
		     5.470 to 5.725 GHz

Bandwidth		20-, 40- ,80-, and 160-MHz
Conducted typical transmit output power[1]	US (2.4 GHz/5 GHz)	29/29 dBm
	EU (2.4 GHz/5 GHz)	20/29 dBm
Wireless security		Open, WPA2-Personal, WPA3-Personal
SSID number		8
No. of antenna		4 (internal)
Antenna gain		2.4Ghz: 3.65dBi, 4x4: 4SS 5Ghz: 4.63dBi, 4x4: 4SS

System

Capacity & Performance*2
- SPI firewall throughput: 2,000 Mbps*3
- Throughput with Application management on: 2,000 Mbps
- Throughput with Threat management on: 2,000 Mbps
- VPN Throughput: 300 Mbps*4
- Max. TCP concurrent sessions: 20,000*5
- Max. gateway-to-gateway IPsec VPN tunnels: 3
- Max. remote VPN tunnels: 5
- VLAN interface: 4

Nebula App

- Discovering the USG LITE 60AX via Bluetooth
- Easy onboarding
- Device monitoring and alert
- Dashboard presents application usage, and security level
- Panels for configuring WAN and WiFi
- Purchase licenses

Software

Security
- Ransomware/Malware prevention
- Intrusion blocker
- Dark Web blocker
- Stop mail fraud & phishing
- Block Ads
- Block VPN proxy
- Traffic Management
  - Application block
  - Application traffic shaping
- Web Filtering (Content Filter)*6
- Firewalling
- Country Restriction (Geo IP blocking)
- Exception list
- Custom allowed/blocked domain
- IPSec VPN (site-to-site, spoke only)
- Remote access VPN (IKEv2)

Wireless Features
- Site-wide SSID provisioning from Nebula cloud
- See wireless client info from the Nebula dashboard
- Auto / Fixed Channel Selection
- Fast roaming: 802.11r/k/v
- Smart Mesh
- Wireless bridge

Networking
- WAN type: Static IP, DHCP, PPPoE, and PPPoE with Static IP
- NAT - Virtual server
- DHCP server and DHCP relay
- Dynamic DNS (DDNS)
- Static route
- Reserve IP (static DHCP)
- Block clients
- VLAN Segmentation
- Guest Network
- IPTV

Management
- Client report
- Firmware upgrade
- Keep device settings in the Nebula
- Live tools
- Remote support and diagnostics
- Event Log

Hardware
- CPU: 2.0 GHz Quad-core
- Memory: 1 GB
- Flash: 512 MB
- Antenna: 4 internal antennas
- Buttons:
  - Reset
- WAN: One 100/1000/2500 Mbps Ethernet RJ-45 port with auto MDI/MDIX support
- LAN: One 100/1000/2500 Mbps, and four 100/1000 Mbps Ethernet RJ-45 ports with auto MDI/MDIX support
- LED indicator: 1 LED indicator for status indication
- Power: 12 V DC, 3.0 A
- Power consumption: 31 watt

Physical Specifications
- Item dimensions(W x D x H): 65 x 161.7 x 229 mm (2.56" x 6.37"x 9.02")
- Item weight: 707 g (1.56 lb.)
- Packing dimensions(W x D x H): 259 x 266 x 73 mm (10.20" x 10.47" x 2.87")
- Packing weight: 1.47 kg (3.24 lbs.)

Environment

Operating Environment
- Temperature: 0°C to 40°C (32°F to 104°F)
- Humidity: 5% to 95% (Non-condensing)

Storage Environment
- Temperature: -30°C to 70°C (-22°F to 158°F)
- Humidity: 5% to 95% (Non-condensing)

Certifications
- CE, FCC, BSMI

Package Contents
- 1 x USG LITE 60AX
- 1 x Power Adapter
- DoC and safety warning

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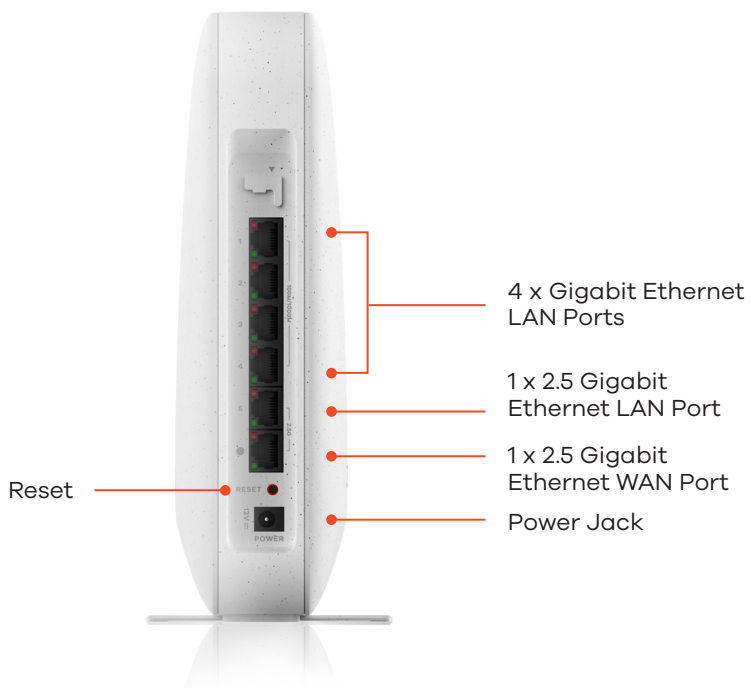*3: Maximum throughput is measured using FTP with a 2 GB file and 1,460-byte packets across multiple sessions.
*4: VPN throughput is measured based on RFC 2544 using 1,424-byte UDP packets.
*5: Maximum sessions are measured using the industry-standard IXIA IxLoad testing tool.
*6: Requiring Elite Pack

Interface

4 x Gigabit Ethernet LAN Ports

1 x 2.5 Gigabit Ethernet LAN Port

1 x 2.5 Gigabit Ethernet WAN Port

Power Jack

Reset

Download App

Zyxel Nebula Mobile

App Store

Google Play

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

12/07/24

Datasheet USG LITE 60AX