

ZYXEL USG FLEX 200H

ZYXEL USGFLEX200H ZyWALL High Speed Cyber Security Firewall Instruction Manual

Model: USG FLEX 200H

1. INTRODUCTION

This manual provides essential information for the installation, configuration, and operation of your ZYXEL USGFLEX200H ZyWALL High Speed Cyber Security Firewall. Please read this manual thoroughly before using the device to ensure proper functionality and security.



Figure 1: Zyxel USGFLEX200H ZyWALL High Speed Cyber Security Firewall

2. WHAT'S IN THE BOX

Verify that all items are present in the package:

- ZyWALL USG FLEX 200H Network Security/Firewall Appliance
- Power Adapter
- RJ-45 - RS-232 Cable For Console Connection

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3. PRODUCT OVERVIEW

The ZYXEL USGFLEX200H is a high-performance cyber security firewall designed for small to mid-sized offices. It features multi-gigabit ports and advanced security capabilities.

3.1 Front Panel




Figure 2: Front Panel of USGFLEX200H

The front panel includes indicator lights for power, system status, and individual port activity. It also features a USB port and multiple Ethernet ports.

3.2 Flexible Ports

802.3at PoE+ offers
30W per port saving
you cabling costs

3x Firewall/VPN/UTM
ultra high performance



Multi-G user-definable
WAN/LAN Ethernet ports
up to 10 Gbps

The image shows a ZYXEL USGFLEX200H firewall device. It is a silver and red unit with a large ventilation grille on top. The front panel features a ZYXEL logo, a 'zyWALL Security' label, and several status LEDs (REBOOT, RESET, POWER, LER, P1, P2, P3, P4, P5, P6, P7, P8). To the right of the LEDs are eight Ethernet ports labeled P1 through P8. A USB port is located on the far right. Three red circular icons with white symbols are overlaid on the image: a rocket (top left), a lightning bolt (top right), and a folder (bottom center).

Figure 3: Flexible Port Configuration and Performance Highlights

The USGFLEX200H offers 2x 2.5Gbps multi-gigabit ports and 6x configurable Gigabit Ethernet ports for flexible WAN/LAN deployment. This allows for optimized network connectivity and redundancy.

4. SETUP

Follow these general steps to set up your ZYXEL USGFLEX200H firewall:

1. **Connect Power:** Connect the provided power adapter to the device and a power outlet.
2. **Connect WAN:** Connect your internet service provider's modem or router to one of the configurable WAN ports (e.g., WAN1).
3. **Connect LAN:** Connect your local network devices (e.g., switches, computers) to the LAN ports.
4. **Initial Configuration:** Access the device's web interface or use the Nebula Cloud Management solution for initial setup. Refer to the Quick Start Guide for detailed first-time setup instructions.

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Video 2: An overview of the Zyxel USGFLEX H Series Firewalls, demonstrating their features and connectivity options.

5. OPERATING FEATURES

The USGFLEX200H offers a range of features for robust network security and management:

- **High Performance:** Max Throughput: 5000 Mbps SPI Firewall, 1500 Mbps UTM (AV+IDP), 1200 Mbps VPN, 600k Sessions.
- **VPN Capabilities:** Supports secure VPN connections for remote access and site-to-site connectivity.
- **Flexible Ports:** 2x 2.5Gbps and 6x Configurable GbE ports for versatile network configurations.

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Video 3: A promotional video highlighting the efficiency and ease of use of Zyxel products, emphasizing the 'Work smarter, not harder' philosophy.

6. NEBULA CLOUD MANAGEMENT

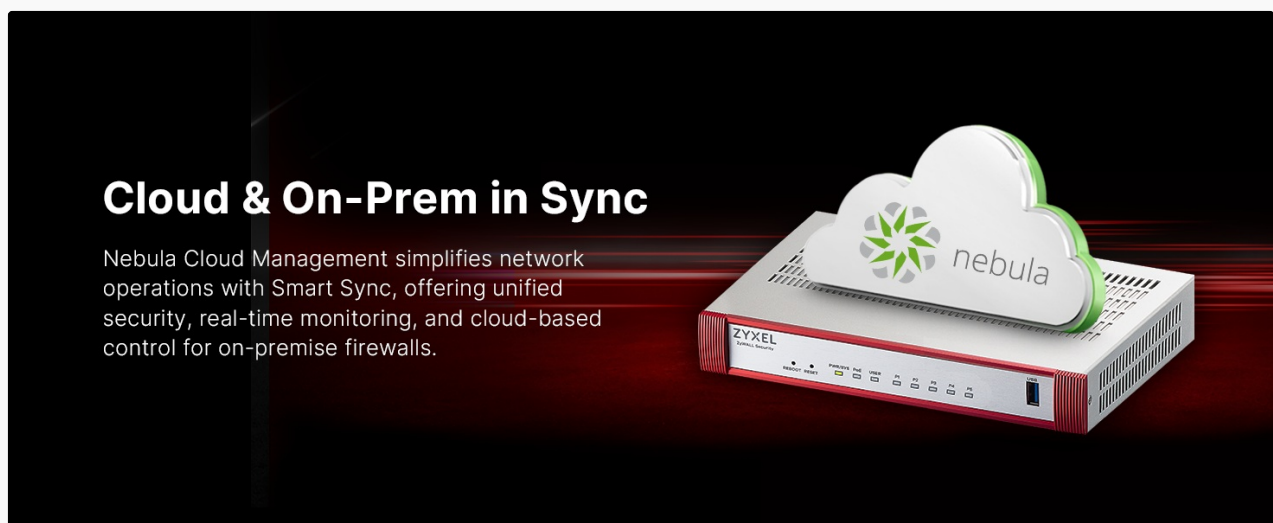
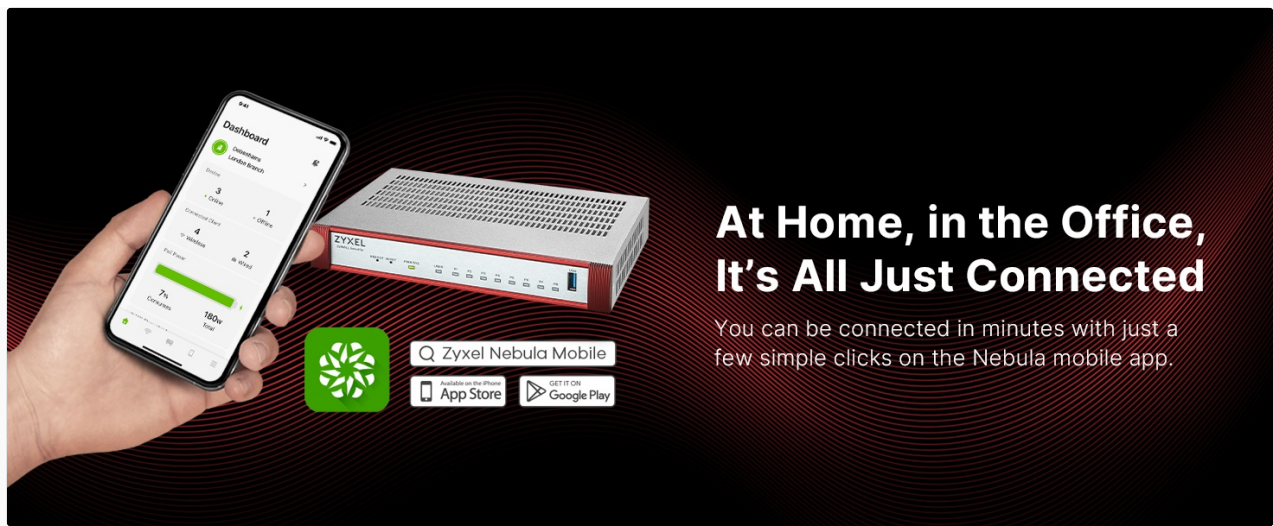


Figure 4: Nebula Cloud Management for unified security and real-time monitoring.

The ZYXEL USGFLEX200H can be managed and monitored using Zyxel's Nebula Cloud Management solution. This platform simplifies network operations, offering unified security, real-time monitoring, and cloud-based control for on-premise firewalls.



At Home, in the Office, It's All Just Connected

You can be connected in minutes with just a few simple clicks on the Nebula mobile app.

Figure 5: Nebula Mobile App for easy setup and monitoring.

The Nebula mobile app allows for quick setup and management, connecting your network in minutes.

7. SECURITY FEATURES

The USGFLEX200H provides robust security with optional UTM services:

Licensed vs. Unlicensed

● Protected
● Not Protected (Optional Add-On)














	WHY IMPORTANT?	UNLICENSED (HARDWARE ONLY)	LICENSED (BUNDLE)
 Network Address Translation	Hides IP addresses on the network from the internet	Protected	Protected
 Stateful Packet Inspection	Checks that packets match active connections or blocks traffic that isn't a match	Protected	Protected
 Distributed Denial of Service	Blocks malicious "bombarding" of an IP address to cripple it, aka "ping of death"	Protected	Protected
 VPN	Securely encrypts data sent between locations across the internet	Protected	Protected
 Anti-Malware/Anti-Virus	Scan files at the gateway for viruses and other threats like ransomware as a first line of defense	Not Protected	Protected
 Web Filtering/Content Filtering	Block access to malicious or risky web sites by category like gambling, adult, social media	Not Protected	Protected
 Sandboxing/Zero Day Threats	Cloud-based sandbox technology against unknown and zero day threats	Not Protected	Protected
 IPS/IDP	Deep-packet intrusion detection and prevention inspection against known attacks from the network	Not Protected	Protected
 Application Patrol	Automatically categorize and manage network application usage by allowing or blocking specific applications	Not Protected	Protected
 Reputation Filter	Block botnet infection and prevent drive-by download from infected websites via IP and URL detection	Not Protected	Protected
 Email Security/Anti-Spam	Fast detection to block spam and phishing mail with malicious content or attachments	Not Protected	Protected
 SecuReporter	Cloud-based security analytics and report with 30-day log retention	Not Protected	Protected
 Nebula Professional Pack	A full feature set of cloud configuration, deployment, monitoring and management	Not Protected	Protected

Figure 6: Licensed vs. Unlicensed Security Features

Key security services, such as Sandboxing, DNS reputation, Anti-malware, ransomware blocking, web filtering, application control, and IDP, are available as separately sold licenses. The base hardware includes Network Address Translation, Stateful Packet Inspection, Distributed Denial of Service protection, and VPN functionality.

AI-Powered Cloud Cybersecurity

Using AI-powered cloud intelligence to deliver multi-layered protection — including sandboxing, anti-malware, filtering, IPS, and app patrol — to block threats and restrict inappropriate behavior.

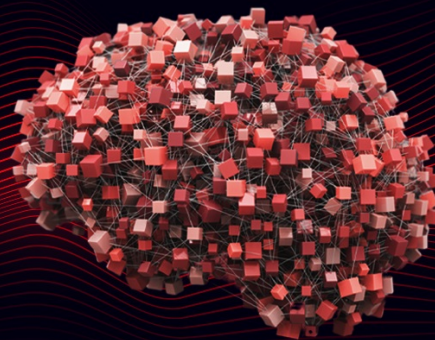


Figure 7: AI-Powered Cloud Cybersecurity

Utilizing AI-powered cloud intelligence, the firewall delivers multi-layered protection to block threats and restrict inappropriate behavior.

License Comparison		
Service	Gold Security Pack	Entry Defense Pack
Reputation Filter	✓	✓
SecuReporter	✓	✓
Nebula Pro Pack	✓	Priority Support Only*
Sandboxing	✓	
Web Filtering	✓	
Anti-Malware	✓	
IPS	✓	
Application Patrol	✓	
Device Insight	✓	
Security Profile Sync	✓	
Secure WiFi*1	✓	

*Priority Support is available to customers with a Pro Pack organization or those using USG FLEX H series firewalls with Gold Security Pack or Entry Defense Pack licenses. Eligible customers can open support tickets for prioritized assistance.

*1 The tunnel mode and Remote AP will be available later and are subject to changes without notice.

Figure 8: License Comparison for Security Services

8. PERFORMANCE

USG FLEX 200 (Prior Generation)



USG FLEX 200 H/HP (New Generation)

2x GbE WAN,
4x GbE LAN/DMZ, 1x SFP

Port Configuration

6x GbE, 2x 2.5G
(USGFLEX200HP: 1x 2.5G PoE+)

1800 Mbps (1.8 Gbps)

SPI Firewall Throughput

5000 Mbps (5 Gbps)

550 Mbps

UTM Throughput (AV+IDP)

1500 Mbps (1.5 Gbps)

450 Mbps

VPN Throughput

1200 Mbps (1.2 Gbps)

100

VPN Tunnels

100

600k

Max # Concurrent Sessions

600k

16

VLANs Supported

32

Yes

Nebula Cloud Managed Option

Yes

Yes

Rack Mountable

Yes

Yes

Fanless

Yes

100

Suggested up to # of Users

100

300 Mbps

Suggested up to Internet Speed

1000 Mbps

*Throughput speeds are based on industry-standard max testing with the largest packet sizes and multiple sessions. Your actual speed test results may vary based on test application.

Figure 9: Performance Comparison with Prior Generation

The USGFLEX200H offers significant performance improvements over previous generations, including higher SPI Firewall, UTM, and VPN throughputs, and increased VLAN support.

Speeds up to

6.5 Gbps

SPI Firewall Throughput



Powerful uOS

Delivers performance
and simplicity



3x Performance

Next-gen multi-core
hardware with
Fastpath technology



Flexible
Management

Switch between
standalone and
cloud modes



Figure 10: Enhanced Performance and Management

The device features next-gen multi-core hardware with Fastpath technology, delivering up to 3x performance

and speeds up to 6.5 Gbps SPI Firewall throughput.

9. MAINTENANCE

- **Firmware Updates:** Regularly check for and apply firmware updates through the Nebula Cloud Management platform or the device's local web interface to ensure optimal performance and security.
- **Physical Inspection:** Periodically inspect the device for dust accumulation, especially around ventilation areas. Ensure proper airflow to prevent overheating.
- **Cable Connections:** Verify that all network cables are securely connected to prevent intermittent connectivity issues.

10. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is correctly connected to the device and a working power outlet. Check the power indicator light on the front panel.
- **No Internet Access:** Verify WAN cable connection. Check your ISP's service status. Confirm WAN settings in the device's configuration.
- **Slow Performance:** Check network traffic via Nebula Cloud or local interface. Consider upgrading security licenses if UTM features are heavily utilized.
- **Device Reset:** If the device is unresponsive, use the 'REBOOT RESET' button on the front panel. A short press reboots, a long press performs a factory reset (data loss will occur).

11. SPECIFICATIONS

Feature	Detail
Product Dimensions	16.8 x 2.9 x 9.8 inches
Item Weight	5.25 pounds
Model Number	USG FLEX 200H
Connectivity Technology	Ethernet, USB
Operating System	uOS
Max SPI Firewall Throughput	5000 Mbps
Max UTM (AV+IDP) Throughput	1500 Mbps
Max VPN Throughput	1200 Mbps
Max Concurrent Sessions	600,000

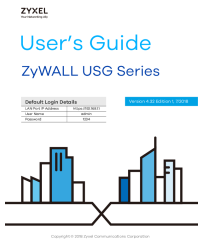
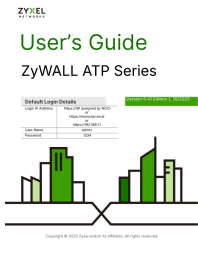
Feature	Detail
VLANs Supported	32
Suggested Users	Up to 100
Suggested Internet Speed	Up to 1000 Mbps

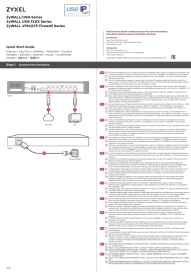
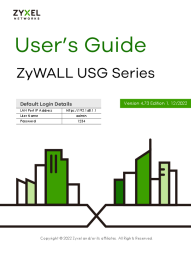
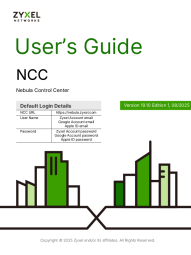
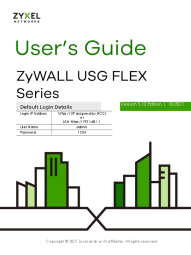
12. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official ZYXEL website. Online resources, FAQs, and contact information for customer service are typically available there.

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Related Documents - USG FLEX 200H

	<p>ZyWALL USG Series User's Guide</p> <p>Comprehensive user guide for the Zyxel ZyWALL USG Series network security gateways, covering setup, configuration, features, and troubleshooting.</p>
	<p>Zyxel ZyWALL ATP Series User's Guide</p> <p>Comprehensive user guide for the Zyxel ZyWALL ATP Series network security appliances, covering setup, configuration, features, and management via Web Configurator and Nebula Control Center.</p>

	<p>ZyXel ZyWALL/USG FLEX Series Quick Start Guide</p> <p>A quick start guide for setting up and configuring Zyxel ZyWALL/USG FLEX Series and ZyWALL VPN/ATP Firewall Series devices. This guide covers initial hardware connection and basic configuration steps.</p>
	<p>ZyWALL USG Series User's Guide</p> <p>Comprehensive user's guide for the Zyxel ZyWALL USG series network security appliances. Covers initial setup, configuration, features such as VPN, firewall, routing, and technical specifications.</p>
	<p>ZyXel Nebula Control Center (NCC) User's Guide - Version 19.10</p> <p>Comprehensive user guide for the Zyxel Nebula Control Center (NCC), a cloud-based network management system. Learn how to manage Zyxel Nebula devices including Access Points, Switches, Security Gateways, and Mobile Routers.</p>
	<p>ZyXel USG FLEX Series User's Guide: Setup, Configuration, and Management</p> <p>Explore the Zyxel USG FLEX Series User's Guide for detailed instructions on setting up, configuring, and managing your network security gateway. Learn about VPNs, security features, and cloud management.</p>