ZYXEL USGFLEX200H-EU0101F

Zyxel USG FLEX200 H Series User Manual

Model: USGFLEX200H-EU0101F

1. INTRODUCTION

This manual provides instructions for the Zyxel USG FLEX200 H Series security gateway. The USG FLEX200 H Series is designed to offer robust network security and flexible connectivity options, featuring user-definable ports including 2 x 2.5G and 6 x 1G Ethernet ports, along with USB connectivity.

Image: Zyxel USG FLEX200 H Series security gateway, showing its compact design and front panel.

2. PACKAGE CONTENTS

Verify that your package contains the following items:

- Zyxel USG FLEX200 H Series Device (Model: USGFLEX200H-EU0101F)
- Power Adapter
- Ethernet Cable
- Quick Start Guide
- Safety Warnings and Regulatory Notices

3. HARDWARE OVERVIEW

3.1 Front Panel

The front panel of the USG FLEX200 H Series device features various ports and LED indicators for status

monitoring and connectivity.

Image: Close-up view of the Zyxel USG FLEX200 H Series front panel, highlighting the USB port, LED indicators, eight Ethernet ports (P1-P8), and the Console port.

- **USB Port:** For connecting external storage or other USB devices.
- **LED Indicators:** Power, System, and User status.
- **Ethernet Ports (P1-P8):** User-definable ports, including 2 x 2.5G and 6 x 1G ports. These can be configured as WAN or LAN.
- **Console Port:** For direct command-line interface access.
- **Reset Button:** To restore factory default settings.

3.2 Key Features

The USG FLEX200 H Series incorporates advanced features for enhanced network performance and security:

Image: Visual representation of key features including high firewall/VPN/UTM performance, 802.3at PoE+ support for cabling cost savings, and Multi-G user-definable WAN/LAN Ethernet ports.

- **Multi-G User-Definable Ports:** Flexible WAN/LAN Ethernet ports up to 10 Gbps (specific models).
- **PoE+ Support:** 802.3at PoE+ offers 30W per port, potentially reducing cabling costs (on specific models like USGFLEX200HP).
- **High Performance:** Enhanced firewall, VPN, and UTM throughput.

4. INITIAL SETUP

Follow these steps for the initial setup of your Zyxel USG FLEX200 H Series device:

1. **Connect Power:** Connect the power adapter to the device and plug it into a power outlet.
2. **Network Connection:** Connect your internet service provider's modem to one of the WAN-configured Ethernet ports (e.g., P1).
3. **Local Network Connection:** Connect a computer or network switch to one of the LAN-configured Ethernet ports (e.g., P2).

4. **Power On:** Press the power button (if available) or ensure the device powers on automatically. Wait for the system LED to indicate readiness.

5. **Access Web Interface:** Open a web browser on the connected computer and navigate to the default IP address (refer to the Quick Start Guide for the specific IP and login credentials).

6. **Initial Configuration:** Follow the on-screen wizard to complete the basic network settings, including WAN/LAN configuration, password changes, and time zone settings.

5. OPERATION AND CONFIGURATION

The Zyxel USG FLEX200 H Series offers a comprehensive web-based management interface for configuring its various features. Key operational aspects include:

5.1 Security Features

The device provides robust security functionalities, which can be enhanced with licensing options.

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

Legend: 🟢 Protected 🟠 Not Protected (Optional Add-On)

Image: A table illustrating the difference in protected status for various security features (e.g., Network Address Translation, Stateful Packet Inspection, VPN, Anti-Malware) between unlicensed (hardware only) and licensed

- **Firewall:** Stateful Packet Inspection (SPI) and Distributed Denial of Service (DDoS) protection.
- **VPN:** Securely encrypts data transmission across networks.
- **Anti-Malware/Anti-Virus:** Scans for and blocks malicious software.
- **Web Filtering/Content Filtering:** Controls access to specific website categories.
- **Intrusion Prevention/Detection (IPS/IDP):** Detects and prevents network attacks.
- **Zero Trust Security:** Simplified security management with SecuExtender, available across multiple OS platforms.

Image: A graphic depicting the concept of zero trust security, emphasizing its ease of implementation with SecuExtender across various operating systems.

5.2 User Interface

The device features a new powerful uOS designed for an accelerated system response time and a user-friendly experience.

Image: The Zyxel USG FLEX device positioned in front of people using various mobile devices, symbolizing the new powerful uOS that accelerates system response time with a user-friendly design.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your device:

- **Firmware Updates:** Periodically check the Zyxel support website for the latest firmware versions. Updating firmware can provide new features, security enhancements, and bug fixes.
- **Configuration Backup:** Regularly back up your device's configuration settings. This allows for quick restoration in case of unexpected issues or device replacement.
- **Physical Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Ensure ventilation openings are not obstructed.
- **Environmental Conditions:** Operate the device within recommended temperature and humidity ranges to prevent overheating and damage.

7. TROUBLESHOOTING

If you encounter issues with your Zyxel USG FLEX200 H Series, consider the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the device and a working power outlet. Check the power LED indicator.
- **No Internet Access:** Verify that your modem is working correctly and connected to the correct WAN port. Check WAN port status LEDs. Ensure your network configuration (IP address, DNS) is correct.
- **Cannot Access Web Interface:** Confirm your computer is connected to a LAN port and has an IP address within the device's subnet. Try clearing your browser's cache or using a different browser. Verify the device's IP address.
- **Slow Performance:** Check network utilization. Ensure firmware is up to date. Review security logs for potential threats or excessive traffic.
- **Factory Reset:** If all else fails, you may perform a factory reset using the reset button.**Warning:** This will erase all configurations. Back up your settings before proceeding.

8. TECHNICAL SPECIFICATIONS

Below are the technical specifications for the Zyxel USG FLEX200 H Series, including comparisons to previous generations and other models in the series.

8.1 USG FLEX H Series Product Matrix

USG FLEX H Product Matrix

	USG FLEX 100H / HP	USG FLEX 200H / HP	USG FLEX 500H	USG FLEX 700H
Physical Ports	8x GbE USGFLEX100HP (1x GbE PoE+) Configurable WAN/LAN	6x GbE, 2x 2.5G USGFLEX200HP (1x 2.5G PoE+) Configurable WAN/LAN	8x GbE, 2x 2.5G, 2x 2.5G PoE+ Configurable WAN/LAN	8x GbE, 2x 2.5G, 2x 10G PoE+, 2x SFP+ Configurable WAN/LAN
SPI Throughput	3000 Mbps (3 Gbps)	5000 Mbps (5 Gbps)	10000 Mbps (10 Gbps)	15000 Mbps (15 Gbps)
UTM Throughput	750 Mbps	1500 Mbps (1.5 Gbps)	2500 Mpbs (2.5 Gbps)	4000 Mbps (4 Gbps)
VPN Throughput	750 Mbps	1200 Mbps (1.2 Gbps)	2000 Mbps (2 Gbps)	3000 Mbps (3 Gbps)
VPN Tunnels	50	100	300	1000
Sessions	300k	600k	1000k	2000k
VLANs	16	32	64	128
Nebula Cloud Option	✓	✓	✓	✓
Rack Mountable	-	✓	✓	✓
Fanless	✓	✓	-	-
Suggested # Users	50	100	300	500
Suggested WAN	500 Mbps	1000 Mbps	1600 Mbps	2600 Mbps

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

Image: A detailed comparison table (USG FLEX H Product Matrix) outlining specifications such as physical ports, throughputs (SPI, UTM, VPN), VPN tunnels, sessions, VLANs, Nebula Cloud option, rack mountability, fanless design, suggested number of users, and suggested WAN speeds across different USG FLEX H series models.

Key Specifications for USG FLEX H Series

Feature	USG FLEX 100H / HP	USG FLEX 200H / HP	USG FLEX 500H	USG FLEX 700H
Physical Ports	8x GbE (USGFLEX100HP: 1x 2.5G PoE+) Configurable WAN/LAN	6x GbE, 2x 2.5G (USGFLEX200HP: 1x 2.5G PoE+) Configurable WAN/LAN	8x GbE, 2x 2.5G, 2x 2.5G PoE+ Configurable WAN/LAN	8x GbE, 2x 2.5G, 2x SFP+ Configurable WAN/LAN
SPI Throughput	3000 Mbps (3 Gbps)	5000 Mbps (5 Gbps)	10000 Mbps (10 Gbps)	15000 Mbps (15 Gbps)
UTM Throughput (AV+IDP)	750 Mbps	1500 Mbps (1.5 Gbps)	2500 Mbps (2.5 Gbps)	4000 Mbps (4 Gbps)

Feature	USG FLEX 100H / HP	USG FLEX 200H / HP	USG FLEX 500H	USG FLEX 700H
VPN Throughput	750 Mbps	1200 Mbps (1.2 Gbps)	2000 Mbps (2 Gbps)	3000 Mbps (3 Gbps)
VPN Tunnels	50	100	300	1000
Max # Concurrent Sessions	300k	600k	1000k	2000k
VLANs Supported	16	32	64	128
Nebula Cloud Managed Option	Yes	Yes	Yes	Yes
Rack Mountable	-	Yes	Yes	Yes
Fanless	Yes	Yes	-	-
Suggested up to # of Users	50	100	300	500
Suggested up to Internet Speed	500 Mbps	1000 Mbps	1600 Mbps	2600 Mbps

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

8.2 Comparison with Prior Generation (USG FLEX 200 vs. USG FLEX 200 H/HP)

USG FLEX 200 (Prior Generation)	VS	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.

Image: A comparison table highlighting the differences between the prior generation USG FLEX 200 and the new generation USG FLEX 200 H/HP, focusing on port configuration, SPI throughput, UTM throughput, VPN throughput, VPN tunnels, max concurrent sessions, and VLANs supported.

8.3 General Device Specifications (USG FLEX200 H Series)

- **Model Number:** USGFLEX200H-EU0101F
- **Product Dimensions:** 11.81 x 11.81 x 11.81 inches
- **Item Weight:** 3.52 pounds
- **Manufacturer:** Zyxel
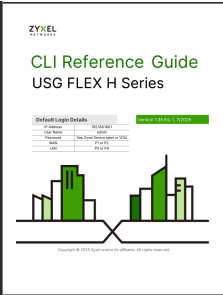- **Release Date:** October 16, 2023
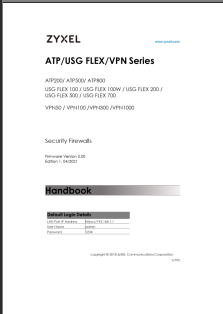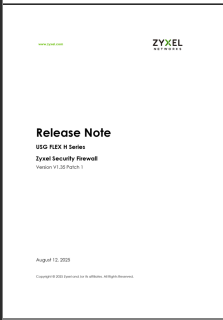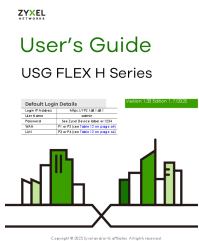- **Language:** English

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Zyxel support website. The website provides access to FAQs, downloads, and contact information for

customer service.

Zyxel Support Website: www.zyxel.com/support

Related Documents - USGFLEX200H-EU0101F

ZYXEL CLI Reference Guide USG FLEX H Series	**Zyxel USG FLEX H Series CLI Reference Guide** Comprehensive Command Line Interface (CLI) reference guide for Zyxel USG FLEX H Series network security appliances, detailing commands, configuration, and troubleshooting.
ZYXEL **Handbook** USG FLEX H Series	**Zyxel USG FLEX H Series Handbook** Comprehensive handbook detailing the setup, configuration, and management of Zyxel USG FLEX H Series firewalls, covering VPNs, security services, authentication, and Nebula integration.
ZYXEL ATP/USG FLEX/VPN Series Handbook	**ZyXEL ATP/USG FLEX/VPN Series Configuration Handbook: VPN and Security Guide** Comprehensive handbook for ZyXEL ATP/USG FLEX/VPN series devices, detailing configuration of IPSec VPN, L2TP VPN, SSL VPN, security services, and network management.
ZYXEL Release Note USG FLEX H Series Zyxel Security Firewall Version V1.35 Patch 1	**Zyxel USG FLEX H Series Release Note V1.35 Patch 1** Detailed release notes for Zyxel USG FLEX H Series Security Firewall firmware version V1.35 Patch 1, covering new features, bug fixes, and supported platforms.

Zyxel USG FLEX H Series User's Guide

Comprehensive user guide for Zyxel USG FLEX H Series network security gateways, covering setup, configuration, management, and features like VPN, security policies, and monitoring.

Zyxel USG FLEX H Series Firmware Release Note V1.35 Patch 2

Official release notes for Zyxel USG FLEX H Series Security Firewall firmware version V1.35 Patch 2. This document details new features, enhancements, bug fixes, known issues, and supported platforms for the USG FLEX H Series models.