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FORTINET FortiGate-200G

FortiGate-200G User Manual

Model: FG-200G-BDL-809-12

Overview Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Product Overview

The FortiGate-200G is a high-performance network security appliance designed to provide comprehensive threat protection and secure connectivity for enterprise networks. It integrates various security functions, including firewall, VPN, intrusion prevention, and application control, into a single platform.

1.1. Key Features

- Advanced Threat Protection
- Secure SD-WAN capabilities
- High-performance Security Processing Units (SPU)
- Universal Zero Trust Network Access (ZTNA)
- Multiple GE RJ45 and GE SFP+ slots for flexible connectivity

1.2. Package Contents

Verify that all items are present in your FortiGate-200G package:

- FortiGate-200G Appliance
- Power Cords (x2)
- Rack-mount Kit
- Quick Start Guide
- Safety and Regulatory Information

1.3. Front Panel Overview

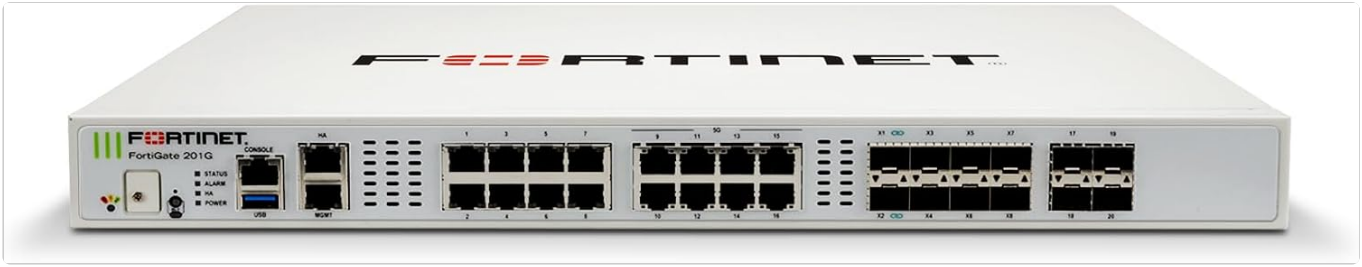

Figure 1.1: Front view of the FortiGate-200G appliance. This image displays the front panel with various Ethernet ports, SFP+ slots, console port, USB ports, and LED indicators for status, alarm, and power.



Figure 1.2: Angled front view of the FortiGate-200G, providing a clearer perspective of the port layout and overall design.

FortiGate 200G Specifications

IPS Throughput	9 Gbps
NGFW Throughput	7 Gbps
Threat Protection Throughput	6 Gbps
Maximum Number of FortiSwitches Supported	64
Firewall Throughput (Packets Per Second)	37.75 Mpps
IPsec VPN Throughput (512 byte)	36 Gbps

Figure 1.3: A different angled front view of the FortiGate-200G, highlighting the ventilation on the sides and the compact form factor.

1.4. Rear Panel Overview



Figure 1.4: Rear view of the FortiGate-200G appliance, showing the dual power supply inputs (PS1, PS2) and fan exhaust vents. This image also illustrates the concept of multiple GE RJ45 and GE SFP+ slots for connectivity and the internal SPU for unparalleled performance.

2. Setup and Installation

This section provides instructions for physically installing and initially configuring your FortiGate-200G appliance.

2.1. Rack Mounting

The FortiGate-200G is designed for standard 19-inch rack mounting. Use the provided rack-mount kit to secure the appliance in your server rack.

1. Attach the rack-mount ears to the sides of the FortiGate appliance using the screws provided.
2. Align the appliance with the rack posts and secure it using appropriate rack screws.
3. Ensure adequate airflow around the appliance for proper cooling.

2.2. Connecting Power

The FortiGate-200G features dual redundant power supplies for enhanced reliability.

1. Connect the provided power cords to the PS1 and PS2 inlets on the rear of the appliance.
2. Plug the other end of the power cords into grounded electrical outlets.
3. The Power LED on the front panel should illuminate green, indicating successful power-on.

2.3. Network Connections

Connect your network cables to the appropriate ports on the FortiGate-200G. Refer to the front panel overview for port identification.

- **WAN Ports:** Connect to your internet service provider (ISP) or upstream network.
- **LAN Ports:** Connect to your internal network switches or devices.

- **SFP+ Ports:** Use for high-speed fiber optic connections if required.
- **Console Port:** For initial command-line interface (CLI) configuration using a serial cable.
- **USB Ports:** For connecting external storage or other compatible devices.

2.4. Initial Configuration Access

After physical installation, you can access the FortiGate for initial configuration via the web-based manager or CLI.

- **Web-based Manager:** Connect a computer to a LAN port and configure its IP address to be in the same subnet as the FortiGate's default LAN IP (e.g., 192.168.1.99). Open a web browser and navigate to https://192.168.1.99.
- **CLI:** Connect a serial cable from your computer's serial port to the FortiGate's console port. Use a terminal emulator (e.g., PuTTY) with settings: 9600 baud, 8 data bits, no parity, 1 stop bit, no flow control.

3. Operating Instructions

This section covers basic operational aspects of the FortiGate-200G.

3.1. Dashboard Overview

Upon logging into the web-based manager, you will see the dashboard, which provides a summary of the system status, network activity, and security events. Familiarize yourself with the various widgets and their functions.

3.2. Configuring Security Policies

Security policies define how traffic flows through the FortiGate and what security profiles are applied. Navigate to **Policy & Objects** > **Firewall Policy** to create and manage policies.

1. Click **Create New** to add a new policy.
2. Specify incoming and outgoing interfaces, source and destination addresses, and services.
3. Apply relevant security profiles (e.g., Antivirus, Web Filter, IPS) to the policy.
4. Ensure policies are ordered correctly, as they are processed from top to bottom.

3.3. Monitoring System Status

Regularly monitor the FortiGate's performance and security status. Key areas to monitor include:

- **System Resources:** CPU, memory, and session usage.
- **Log & Report:** Review traffic logs, security event logs, and generate reports.
- **Alerts:** Configure email or SNMP alerts for critical events.

4. Maintenance

Regular maintenance ensures optimal performance and security of your FortiGate-200G.

4.1. Firmware Upgrades

Keep your FortiGate firmware up to date to benefit from the latest features, security patches, and bug fixes. Always back up your configuration before performing a firmware upgrade.

1. Download the latest firmware from the Fortinet Support website.
2. Navigate to **System** > **Firmware** in the web-based manager.
3. Upload the firmware file and follow the on-screen instructions.

4.2. Configuration Backup and Restore

Regularly back up your FortiGate configuration to prevent data loss and facilitate quick recovery in case of issues.

- **Backup:** Go to **System > Configuration > Backup** and save the configuration file to your local computer.
- **Restore:** Go to **System > Configuration > Restore** and upload a previously saved configuration file.

4.3. Hardware Cleaning

Ensure proper ventilation by keeping the appliance free of dust. Use a soft, dry cloth to clean the exterior. Do not use liquid cleaners.

5. Troubleshooting

This section provides solutions to common issues you might encounter with your FortiGate-200G.

5.1. No Power

- Verify that both power cords are securely connected to the appliance and to live electrical outlets.
- Check the power outlets with another device to ensure they are functional.
- Inspect power cords for any damage.

5.2. Cannot Access Web-based Manager

- Ensure your computer's IP address is in the same subnet as the FortiGate's LAN interface.
- Verify network cable connections.
- Try accessing via the console port and check the interface configuration.
- Clear your browser's cache or try a different browser.

5.3. Network Connectivity Issues

- Check firewall policies to ensure traffic is allowed.
- Verify routing configurations.
- Check cable connections and port status LEDs.
- Use diagnostic tools like `ping` and `traceroute` from the FortiGate CLI.

6. Technical Specifications

Detailed technical specifications for the FortiGate-200G appliance.



Figure 6.1: A table summarizing key performance specifications for the FortiGate 200G, including IPS Throughput, NGFW Throughput, Threat Protection Throughput, Maximum Number of FortiSwitches Supported, Firewall Throughput, and IPsec VPN Throughput.

FortiGate-200G Specifications

Feature	Value
Model Name	FortiGate-200G
Brand	FORTINET
ASIN	B0DJQV73SV
UPC	195875318562
Date First Available	October 17, 2024
Manufacturer	Fortinet
Frequency Band Class	Single-Band
Compatible Devices	Laptop, Personal Computer, Smartphone, Tablet
Connectivity Technology	Ethernet, USB
Security Protocol	wpa2-psk, wpa2-enterprise, wpa3
Number of Ports	24
LAN Port Bandwidth	1000 Mbps
Maximum Upstream Data Transfer Rate	1000 Megabits Per Second

7. Warranty and Support

This section provides information regarding the product warranty and how to obtain technical support.

7.1. Product Warranty

The FortiGate-200G comes with a standard manufacturer's warranty. For detailed warranty terms and conditions, please refer to the documentation included with your product or visit the official Fortinet website. This product includes 1 Year FortiCare Premium and FortiGuard Enterprise Protection.

7.2. Technical Support

For technical assistance, product documentation, and software downloads, please visit the Fortinet Support website. You will need your product serial number for support inquiries.

- **Fortinet Support Portal:** https://support.fortinet.com
- **Documentation:** https://docs.fortinet.com

Consider purchasing additional FortiCare support services for extended coverage and advanced support options.

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