Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

FORTINET FortiGate-70F

FortiGate-70F Firewall User Manual

Model: FG-70F | Brand: FORTINET

1. Product Overview

The FortiGate-70F series is a high-performance Next-Generation Firewall (NGFW) and SD-WAN solution designed for enterprise branch offices and mid-sized businesses. It offers robust protection against cyber threats with system-on-a-chip acceleration and industry-leading secure SD-WAN capabilities, all within a compact, fanless desktop form factor.

This device integrates AI/ML-based FortiGuard security services and an integrated Security Fabric platform to deliver coordinated, automated, end-to-end threat protection across various use cases, including networked, application, cloud, and mobile environments.



Figure 1: Front view of the FortiGate-70F Firewall, showing the Fortinet logo, model number, status indicators, and port LEDs.

2. Key Features

- **Compact Fanless Design:** Ideal for office environments, ensuring silent operation.
- **High-Speed Network Performance:** Features 10 Gbps firewall throughput with nine network ports (7x GE RJ45 Internal, 2x GE RJ45 WAN).
- **Advanced Threat Protection:** Utilizes AI/ML-based FortiGuard security services for comprehensive cybersecurity.
- **Integrated Security Fabric:** Provides broad visibility, integrated solutions, and automated self-healing networks.
- **SD-WAN Solution:** Offers a fast and secure SD-WAN solution for distributed enterprise sites.



Figure 2: Top and rear view of the FortiGate-70F, highlighting the 10 GE RJ45 ports and key features like small form factor, SPU (Security Processing Unit) for unparalleled performance, and Universal ZTNA (Zero Trust Network Access).

3. Setup Guide

3.1 Unpacking and Inspection

1. Carefully remove the FortiGate-70F device from its packaging.
2. Inspect the device for any signs of physical damage. If damage is found, contact your vendor immediately.
3. Verify that all components listed in the packing slip are present.

3.2 Physical Installation

The FortiGate-70F is designed for desktop deployment. Ensure proper ventilation around the device.

1. Place the device on a stable, flat surface.
2. Ensure adequate space for cable connections and airflow.



Figure 3: FortiGate-70F showing its compact dimensions: Height x Width x Length: 1.5 x 8.5 x 6.3 inches, and Weight: 2.23 pounds. This fanless desktop form factor is ideal for office environments.

3.3 Connecting Cables

1. **Power Connection:** Connect the provided power adapter to the DC+12V port on the rear of the device and then to a power outlet.
2. **Network Connections:**
    - Connect your WAN (Internet) cable to one of the WAN ports (WAN1 or WAN2).
    - Connect your internal network devices (switches, computers) to the internal GE RJ45 ports (1-7).
    - The DMZ port can be used for a demilitarized zone network.
3. **Console Connection (Optional):** For initial configuration or troubleshooting, connect a console cable from your computer to the CONSOLE port.
4. **USB Port (Optional):** The USB port can be used for external storage or other compatible peripherals.



Figure 4: Rear view of the FortiGate-70F, clearly showing the DC+12V power input, USB port, Console port, WAN1, WAN2, DMZ, and internal network ports (1-7).

3.4 Initial Power On

1. After connecting all necessary cables, plug the power adapter into the electrical outlet.
2. The device will power on automatically. Observe the PWR and STATUS LEDs on the front panel. They should indicate normal operation after a short boot sequence.

4. Operating Instructions

The FortiGate-70F operates as a comprehensive network security appliance. Configuration and management are

typically performed via a web-based graphical user interface (GUI) or command-line interface (CLI).

4.1 Accessing the Management Interface

1. Ensure your computer is connected to one of the internal network ports of the FortiGate-70F.
2. Open a web browser and enter the default IP address of the FortiGate (refer to the device's quick start guide or Fortinet documentation for the default IP, typically 192.168.1.99).
3. Log in using the default username and password (consult Fortinet documentation for default credentials). It is highly recommended to change these immediately after the first login.

4.2 Basic Configuration

Once logged in, you can configure various aspects of your network security:

- **Network Settings:** Configure WAN interfaces (DHCP, Static IP, PPPoE), internal interfaces, and VLANs.
- **Firewall Policies:** Define rules to control traffic flow between different network segments and to/from the internet.
- **Security Profiles:** Enable and configure features like Antivirus, Web Filtering, Application Control, and Intrusion Prevention.
- **SD-WAN:** Configure SD-WAN rules for intelligent traffic steering and link aggregation.
- **VPN:** Set up IPsec or SSL VPNs for secure remote access or site-to-site connectivity.

For detailed configuration steps, refer to the official Fortinet documentation and administration guides available on the Fortinet support website.

5. Maintenance

Regular maintenance ensures optimal performance and security of your FortiGate-70F Firewall.

- **Firmware Updates:** Regularly check for and apply the latest firmware updates from Fortinet to ensure you have the most recent security patches and features.
- **Configuration Backups:** Periodically back up your device configuration. This is crucial for quick recovery in case of unforeseen issues.
- **Monitoring Logs:** Regularly review system logs and security event logs for any unusual activity or potential threats.
- **Physical Inspection:** Ensure the device is free from dust and that ventilation openings are not obstructed. As it's a fanless design, maintaining clear airflow is important for heat dissipation.
- **Security Service Updates:** Ensure your FortiGuard security services subscriptions are active and up-to-date for continuous threat intelligence.

6. Troubleshooting

If you encounter issues with your FortiGate-70F, consider the following troubleshooting steps:

- **No Power:**
  - Check power cable connections to the device and the power outlet.
  - Verify the power outlet is functional.
- **No Network Connectivity:**
  - Check Ethernet cable connections to the FortiGate and connected devices.
  - Verify port link/speed LEDs on the FortiGate are active.
  - Confirm network interface configurations (IP addresses, subnet masks, gateways) are correct.

- Review firewall policies to ensure traffic is not being blocked.

- **Cannot Access Management Interface:**
  - Ensure your computer's IP address is in the same subnet as the FortiGate's management interface.
  - Try accessing via HTTPS (e.g.,https://192.168.1.99).
  - If still unable to access, consider connecting via the console port for CLI access.
- **Performance Issues:**
  - Check CPU and memory utilization from the dashboard.
  - Review traffic logs for any unusual spikes or attacks.
  - Ensure FortiGuard services are up-to-date.
- **Reset to Factory Defaults:** As a last resort, you can reset the device to factory defaults using the reset button (refer to Fortinet documentation for the exact procedure, as this will erase all configurations).

7. Specifications

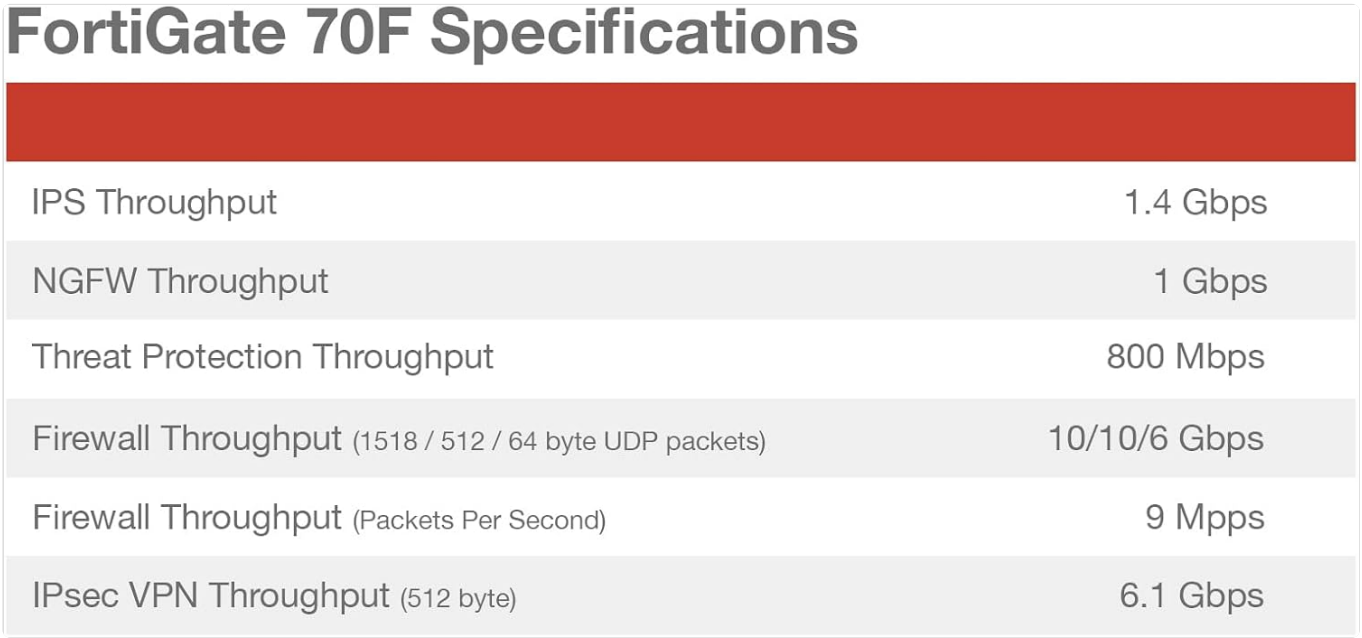


Figure 5: A visual representation of key performance specifications for the FortiGate-70F.

FortiGate-70F Technical Specifications

Attribute	Value
Product Dimensions	4.53 x 2.69 x 1.59 inches
Item Weight	3.78 pounds
Item Model Number	FortiGate-70F
Manufacturer	FORTINET
Connectivity Technology	Ethernet
Internal Ports	7x GE RJ45
WAN Ports	2x GE RJ45

Attribute	Value
Recommended Uses	Security
IPS Throughput	1.4 Gbps (from image)
NGFW Throughput	1 Gbps (from image)
Threat Protection Throughput	800 Mbps (from image)
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	10/10/6 Gbps (from image)
Firewall Throughput (Packets Per Second)	9 Mpps (from image)
IPsec VPN Throughput (512 byte)	6.1 Gbps (from image)

8. Official Product Video

▶ **Watch video online**

This video provides an overview of the Fortinet Enterprise Security Router, highlighting its features and benefits as a complete network security solution. It showcases the compact design, high-speed performance, and advanced security services offered by Fortinet products like the FortiGate-70F.

9. Warranty and Support

For detailed warranty information, including terms, conditions, and duration, please refer to the official Fortinet website or the warranty card included with your product. Fortinet offers various support options and protection plans to ensure the longevity and optimal performance of your device.

For technical support, documentation, and software downloads, visit the official Fortinet support portal. You may need your product's serial number for registration and support inquiries.

Online Resources:

- Fortinet Support Website
- Fortinet Documentation Library

© 2024 FORTINET. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B0B4BDM6J7

More documents and user manuals: **https://manuals.plus/**