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## FORTINET FG-70G

### Fortinet FortiGate-70G Firewall User Manual

Model: FG-70G

#### 1. INTRODUCTION

This manual provides essential information for the installation, configuration, operation, and maintenance of the Fortinet FortiGate-70G Firewall. The FortiGate-70G is designed to deliver enterprise-grade security for small offices, retail sites, and distributed branches, integrating advanced threat protection capabilities within a compact and manageable form factor. It operates on FortiOS and leverages FortiGuard AI-driven threat intelligence to provide comprehensive network security.

#### 2. PRODUCT OVERVIEW

The FortiGate-70G is a next-generation firewall that consolidates critical security functions. Key features include:

- Next-generation firewall (NGFW) capabilities, Intrusion Prevention System (IPS), and web filtering.
- Secure SD-WAN for optimized cloud and SaaS performance with consistent security policies.
- Deep visibility through SSL inspection and application control for encrypted traffic.
- Simplified deployment and centralized management via FortiGate Cloud or FortiManager.
- Seamless integration with FortiSwitch and FortiAP for a unified wired and wireless network.

##### 2.1. Device Layout



Figure 2.1: Front view of the Fortinet FortiGate-70G Firewall, showing status indicators and the Fortinet logo.



Figure 2.2: Front and rear views of the FortiGate-70G, illustrating the compact form factor and the 10 Gigabit Ethernet RJ45 ports on the rear panel.



Figure 2.3: Side view of the FortiGate-70G, indicating its physical dimensions: Height x Width x Length: 1.6 x 8.5 x 6.3 inches, Weight: 2.01 pounds.

### 3. SETUP

#### 3.1. Physical Connection

1. **Power Connection:** Connect the provided power adapter to the device and a suitable power outlet.
2. **Network Connections:** Connect your Internet Service Provider's (ISP) modem or router to the designated WAN port(s) on the FortiGate-70G. Connect your internal network devices (switches, computers) to the LAN ports.
3. **Console Connection (Optional):** For initial configuration or troubleshooting, connect a console cable from your management workstation to the console port on the FortiGate-70G.

#### 3.2. Initial Configuration Access

Once powered on and connected, the FortiGate-70G can be accessed via a web browser or the command-line interface (CLI) through the console port. Refer to the Fortinet documentation for default IP addresses and login credentials for initial access.

### 4. OPERATING

The FortiGate-70G operates on FortiOS, providing a comprehensive suite of security and networking features. Management can be performed locally via the web-based GUI or CLI, or centrally through FortiGate Cloud or FortiManager.

#### 4.1. Core Security Functions

- **Firewall Policies:** Configure rules to control traffic flow between network segments.
- **Intrusion Prevention System (IPS):** Protect against known exploits and vulnerabilities.
- **Application Control:** Identify and manage network applications.
- **Web Filtering:** Block access to malicious or inappropriate websites.
- **Malware Defense:** Detect and prevent malware infections.
- **SSL Inspection:** Decrypt and inspect encrypted traffic for hidden threats.

#### 4.2. FortiGuard Security Services

The FortiGate-70G integrates with FortiGuard Security Services, which provide real-time threat intelligence updates. These services enhance the device's ability to protect against evolving threats.

## Subscriptions

Service Category	Service Offering	Bundles			
		A-la-carte	Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiGuard Security Services	IPS — IPS, Malicious/Botnet URLs	•	•	•	•
	Anti-Malware protection (AMP) — AV, Botnet Domains, Mobile Malware, Virus Outbreak Protection, Content Disarm and Reconstruct <sup>1</sup> , AI-based Heuristic AV, FortiGate Cloud Sandbox	•	•	•	•
	URL, DNS and Video Filtering — URL, DNS and Video <sup>2</sup> Filtering, Malicious Certificate	•	•	•	•
	Anti-Spam	•	•	•	•
	AI-based Inline Malware Prevention <sup>3</sup>	•	•	•	•
	Data Loss Prevention (DLP) <sup>4</sup>	•	•	•	•
	Attack Surface Security — IoT Device Detection, IoT Vulnerability Correlation and Virtual Patching, Security Rating, Outbreak Check	•	•	•	•
	OT Security — OT Device Detection, OT vulnerability correlation and Virtual Patching, OT Application Control and IPS <sup>5</sup>	•	•	•	•
	Application Control			Included with FortiCare Subscription	
	Inline CASB <sup>6</sup>			Included with FortiCare Subscription	
SD-WAN and SASE Services	SD-WAN Underlay Bandwidth and Quality Monitoring	•			
	SD-WAN Overlay-as-a-Service	•			
	SD-WAN Connector for FortiSASE Secure Private Access	•			
	SASE connector for FortiSASE Secure Edge Management (with 10Mbps Bandwidth) <sup>7</sup>	•			
NOC and SOC Services	FortiConverter Service for one time configuration conversion	•			
	Managed FortiGate Service—available 24x7, with Fortinet NOC experts performing device setup, network, and policy change management	•			
	FortiGate Cloud—Management, Analysis, and One Year Log Retention	•			
	FortiManager Cloud	•			
	FortiAnalyzer Cloud	•			
	FortiGuard SOCaas—24x7 cloud-based managed log monitoring, Incident Triage, and SOC escalation service	•			
Hardware and Software Support	FortiCare Essentials <sup>8</sup>	•			
	FortiCare Premium	•			
Base Services	FortiCare Elite	•			
	Device/OS Detection, GeoIPs, Trusted CA Certificates, Internet Services and Botnet IPs, DDNS (v4/v6), Local Protection, PSIRT Check, Anti-Phishing			Included with FortiCare Subscription	

Figure 4.1: Overview of FortiGuard Security Services, categorized by service offering and available bundles (A-la-carte, Enterprise Protection, Unified Threat Protection, Advanced Threat Protection).

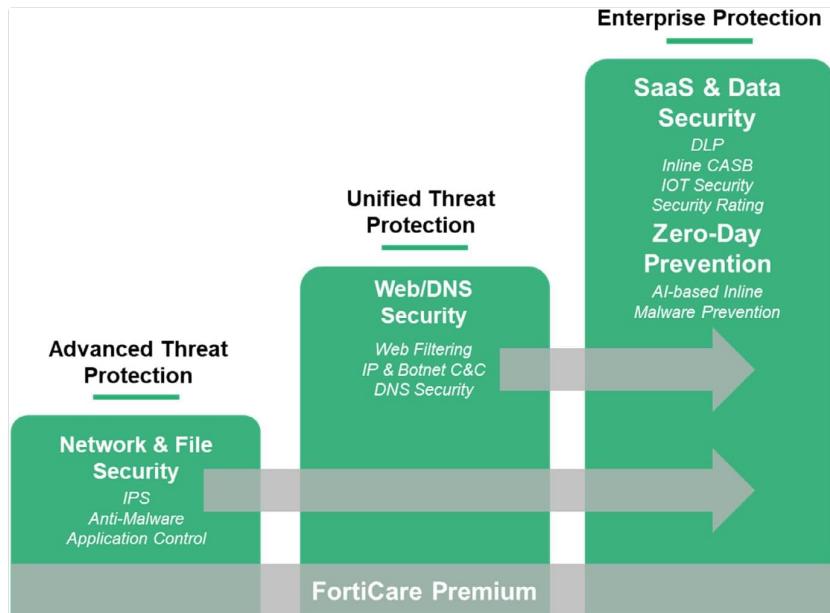


Figure 4.2: Visual representation of Fortinet's protection tiers, showing how Advanced Threat Protection (Network & File Security), Unified Threat Protection (Web/DNS Security), and Enterprise Protection (SaaS & Data Security, Zero-Day Prevention) build upon each other, all underpinned by FortiCare Premium.



Figure 4.3: A pyramid diagram illustrating FortiGuard Security Services and their role in protecting against various attack surface elements, from Intrusion Prevention System (IPS) at the base to Data Loss Prevention (DLP) at the top.

## 5. MAINTENANCE

### 5.1. Firmware Updates

Regularly update the FortiGate-70G firmware to ensure optimal performance, access to new features, and the latest security patches. Firmware updates can be managed through the FortiGate GUI or CLI.

### 5.2. Monitoring and Logging

Monitor system logs and security events regularly to identify potential issues or security incidents. The FortiGate-70G provides extensive logging capabilities, which can be viewed locally or integrated with FortiAnalyzer for centralized analysis.

### 5.3. Configuration Backup

Periodically back up your device configuration. This allows for quick restoration of settings in case of a system failure or misconfiguration.

## 6. TROUBLESHOOTING

### 6.1. Connectivity Issues

- **No Internet Access:** Verify WAN port connection, check ISP status, and review firewall policies.
- **Internal Network Access:** Ensure LAN connections are correct and check internal routing and firewall rules.
- **Cannot Access GUI:** Confirm the management workstation is on the correct network segment and try accessing via the console port.

### 6.2. Performance Issues

- **Slow Network Speed:** Check for high CPU/memory utilization on the FortiGate, review traffic logs for unusual activity, or consider optimizing security policies.
- **Dropped Connections:** Investigate firewall logs for blocked traffic and ensure appropriate policies are in place.

## 7. SPECIFICATIONS

The FortiGate-70G offers robust performance and connectivity for its class.

# FortiGate 70G Specifications

IPS Throughput	2.5 Gbps
NGFW Throughput	1.5 Gbps
Threat Protection Throughput	1.3 Gbps
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	10/10/10 Gbps
Firewall Throughput (Packets Per Second)	15 Mpps
IPsec VPN Throughput (512 byte)	7.1 Gbps

Figure 7.1: Performance specifications for the FortiGate-70G, including IPS Throughput, NGFW Throughput, Threat Protection Throughput, Firewall Throughput, and IPsec VPN Throughput.

Feature	Detail
<b>Brand</b>	FORTINET
<b>Model Name</b>	FortiGate 70G Network Firewall
<b>Special Features</b>	Internet Security, Parental Control, Remote Access
<b>Frequency Band Class</b>	Single-Band
<b>Compatible Devices</b>	Laptop, Personal Computer, Smartphone, Tablet
<b>Connectivity Technology</b>	Ethernet
<b>Operating System</b>	FortiOS
<b>Number of Ports</b>	10
<b>Data Transfer Rate</b>	2500 Megabits Per Second
<b>LAN Port Bandwidth</b>	1000 Mbps
<b>Dimensions (HxWxL)</b>	1.6 x 8.5 x 6.3 inches
<b>Weight</b>	2.01 pounds

## 8. WARRANTY AND SUPPORT

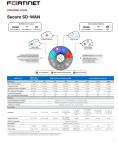
For warranty information and technical support, please refer to the official Fortinet website or contact your authorized Fortinet reseller. Fortinet provides various support options, including documentation, knowledge bases, and direct technical assistance.

For additional resources, visit the [Fortinet Official Website](#).

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### Related Documents - FG-70G

	<p><a href="#">FortiGate 100F Series: Next Generation Firewall, Secure SD-WAN, and Secure Web Gateway Data Sheet</a></p> <p>Data sheet detailing the Fortinet FortiGate 100F Series (FG-100F, FG-101F), a scalable and secure SD-WAN solution with Next Generation Firewall (NGFW) and Secure Web Gateway capabilities for mid-sized to large enterprises. Features include system-on-a-chip acceleration, advanced threat protection, and comprehensive management.</p>
	<p><a href="#">FortiGate FortiWiFi 40F Series: Next-Generation Firewall and SD-WAN Solutions</a></p> <p>Explore the FortiGate FortiWiFi 40F series, a powerful and versatile solution for secure networking. Discover its advanced security features, high performance, and SD-WAN capabilities, ideal for distributed enterprises.</p>
	<p><a href="#">Fortinet Secure SD-WAN Ordering Guide</a></p> <p>This ordering guide provides detailed information on Fortinet's Secure SD-WAN solutions, including product offerings for branches and hubs, bundles, virtual machine support, management platforms, and professional services. It helps users select the appropriate FortiGate models and configurations for their network needs.</p>

 <b>QuickStart Guide</b> FortiGate Rugged 70G	<p><a href="#">FortiGate Rugged 70G QuickStart Guide</a></p> <p>A quick start guide for the FortiGate Rugged 70G (FGR-70G), covering essential setup, package contents, power installation, wiring, grounding, dimensions, mounting, digital I/O connector, BIOS options, and regulatory information.</p>
 <b>FortiGate 1100E Series Next-Generation Firewall   Fortinet</b>	<p>Fortinet FortiGate 1100E</p> <p>NGFW</p> <p>SD-WAN</p>
 <b>Fortinet Secure SD-WAN Ordering Guide: Models, Bundles, and Specifications</b>	<p>This guide provides comprehensive ordering information for Fortinet's Secure SD-WAN solutions, detailing appliance models, performance specifications, bundle options, cloud integration, and management platforms for enterprise networks.</p>

Documents - FORTINET – FG-70G



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QuickStart Guide FG 70G 71G QSG fortinetweb s3 amazonaws docs fortinet v2 attachments 729241d1 cdfc 11ef 91d4 7a9b9721b752 ||| QuickStart Guide FortiGate 70G Series **FG-70G**, FG-71G The Essentials Secure your Network Register at <https://support.fortinet.com> your computer using the provided Ethernet cable 2 Open ...  
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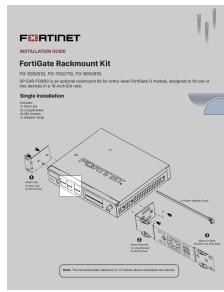
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#### [pdf] Installation Guide Documentation Guide

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INSTALLATION GUIDE FortiGate Rackmount Kit FG-50G/51G, **FG-70G**/71G, FG-90G/91G SP-EAR-FG90G is an optional rackmount kit for entry level G models designed to fit one or two FortiGate units in a standard 19" rack. Includes: 1x Short Ear 2x Long Bracket 4x M4 Screws 1x Adapter Strap.

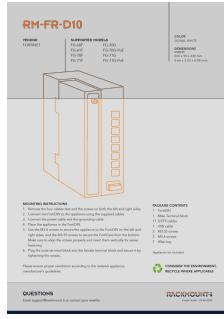
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#### [pdf] Guide

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#### [pdf] User Manual Installation Guide Instructions Guide

User Manual RACKMOUNT IT FortiDIN Din Rail Mount for Network Security Firewall Device Signal White Caretek Solutions 1085913151 content utilize Manual 1085913151 RM-FR-D10 VENDOR FORTINET SUPPORTED MODELS FG-60F **FG-70G** FG-61F **FG-70G**-PoE FG-70F FG-71G FG-71F FG-71G INSTRUCTIONS 1. Remove the four rubber feet and the screws on both the left and right sides....

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#### [pdf] Datasheet

FortiGate FortiWiFi 70G Series Data Sheet Fortinet Datasheet fortigate fortifi 70g series fortinet content dam assets data sheets ||| ||| Data Sheet FortiGate FortiWiFi 70G Series Highlights Gartner Magic QuadrantTM Leaders for both Network Firewalls and SDWAN Unparalleled performance enabled by Fortinet's patented ASIC and the FortiOS operating system Enterprise-grade protec

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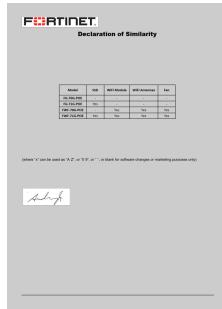
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#### [\[pdf\] Declaration of Conformity](#)

Yann Pradelle TVE 241001 FCC Declaration of Similarity Fortinet Inc Network Security Gateway TVE241001 Declaration of Similarity January 30, 2025 We Fortinet, Inc. hereby declare that products in the ta ... stics except for the following ha POE - Yes FWF-71G-POE Yes Yes --- Yes Ye...  
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#### [FortiOS 7.6.4 Release Notes: Fortinet Security Updates and Features](#)

FortiOS 7.6.4 Release Notes from Fortinet provide detailed information on new features, enhancements, resolved issues, and known lang:en score:22 filesize: 1.04 M page\_count: 64 document date: 2025-09-26



#### [\[pdf\] Test Report SAR Rating](#)

FA461510 01 FCC RF Exposure Fortinet Inc 250201 Network Security Gateway TVE TVE250201 RF EXPOSURE EVALUATION REPORT Report No. : FA461510-01 RF EXPOSURE EVALUATION REPORT FCC ID : TVE-250201 FortiGate 70G-POExxxxxxxxxx, FORTIGATE-70G-POExxxxxxxxxx, FG-70G-POExxxxxxxxxx, For...  
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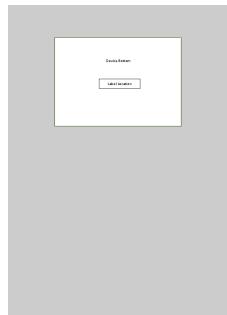
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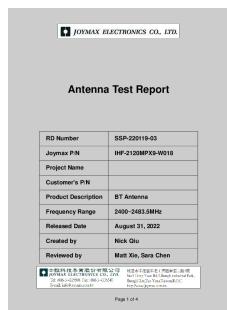
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