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## FORTINET FortiGate-60F

# FortiGate-60F Network Security Appliance User Manual

Model: FortiGate-60F

## 1. OVERVIEW

The FortiGate-60F is a network security appliance designed to provide robust protection for medium-sized businesses. It integrates advanced security features with streamlined management, ensuring a secure and efficient network environment. This device comes bundled with 5 years of FortiCare Premium and FortiGuard Unified Threat Protection (UTP), offering comprehensive defense against various online threats.

Key benefits include:

- **Hardware Plus Security Services:** Bundled with 5 years of FortiCare Premium and FortiGuard Unified Threat Protection.
- **Unified Threat Protection (UTP):** Provides comprehensive web filtering and anti-botnet technologies to secure against advanced online threats.
- **Optimized for Medium-Sized Businesses:** Tailored to deliver robust security without the complexity of larger enterprise infrastructures.
- **Reliable Customer Support:** FortiCare Premium ensures high-quality support and service continuity.
- **Effective Protection:** Employs advanced filtering technologies to safeguard against sophisticated threats.

## 2. WHAT'S IN THE Box

Verify that all items are present in your package:

- FortiGate-60F Network Security Appliance
- CD (containing documentation and software)
- Power Adapter
- Ethernet Cable

## 3. PRODUCT FEATURES AND INTERFACES

The FortiGate-60F features a compact design with multiple ports for flexible network connectivity and robust security processing capabilities.



Figure 1: Front and Rear View of FortiGate-60F with 10 GE RJ45 ports highlighted. Also shows indicators for small form factor, SPU for unparalleled performance, and Universal ZTNA.

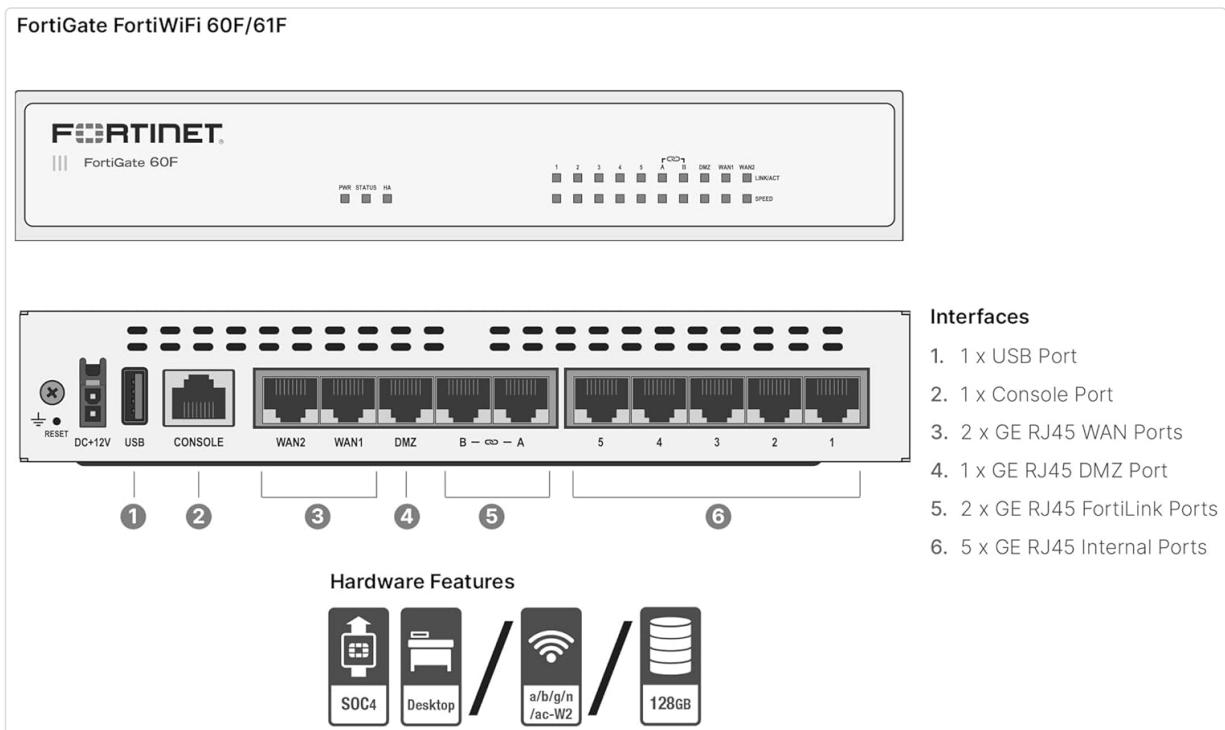


Figure 2: Detailed diagram of the FortiGate 60F/61F interfaces. Includes 1x USB Port, 1x Console Port, 2x GE RJ45 WAN Ports, 1x GE RJ45 DMZ Port, 2x GE RJ45 FortiLink Ports, and 5x GE RJ45 Internal Ports. Hardware features include SOC4, Desktop form factor, a/b/g/n/ac-W2 wireless, and 128GB storage.

The device includes:

- 1 x USB Port

- 1 x Console Port
- 2 x GE RJ45 WAN Ports
- 1 x GE RJ45 DMZ Port
- 2 x GE RJ45 FortiLink Ports
- 5 x GE RJ45 Internal Ports

## 4. SETUP

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Follow these general steps for initial setup:

1. **Physical Connection:** Connect the FortiGate-60F to your network. Ensure the power adapter is securely connected and the device is powered on.
2. **Initial Access:** Connect a computer to the FortiGate's console port or a LAN port. Configure your computer's network settings to match the device's default IP range (refer to the included CD for specific default settings).
3. **Web-based Management:** Open a web browser and navigate to the device's default IP address. Log in using the default credentials (typically 'admin' with no password initially).
4. **Registration:** Register your device at [fortinet.com/register](http://fortinet.com/register) to activate your FortiGuard and FortiCare services.
5. **Configuration:** Follow the on-screen wizard or manual configuration options to set up your network, security policies, and other features.

## 5. OPERATING INSTRUCTIONS

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Once configured, the FortiGate-60F operates continuously to protect your network. Key operational aspects include:

- **Monitoring:** Regularly check the device's status indicators (PWR, STATUS, HA, LINK/ACT, SPEED) and the web-based management interface for network activity, alerts, and performance metrics.
- **Security Policies:** Manage and update security policies to control traffic flow, enforce access rules, and apply threat protection profiles.
- **VPN Management:** Configure and monitor Virtual Private Network (VPN) connections for secure remote access or site-to-site connectivity.
- **Firmware Updates:** Keep the device firmware updated to ensure optimal performance, security, and access to the latest features.

## 6. MAINTENANCE

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To ensure the longevity and optimal performance of your FortiGate-60F, regular maintenance is recommended:

- **Environmental Conditions:** Ensure the device is placed in a well-ventilated area, away from direct sunlight and excessive heat or moisture.
- **Cleaning:** Periodically clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Backup Configuration:** Regularly back up your device configuration to prevent data loss in case of unforeseen issues.
- **Log Review:** Review system logs and security reports for any unusual activity or potential threats.

## 7. TROUBLESHOOTING

If you encounter issues with your FortiGate-60F, consider the following troubleshooting steps:

- **No Power:** Check the power adapter connection and ensure the power outlet is functional. Verify the PWR LED is illuminated.
- **Network Connectivity Issues:** Verify all Ethernet cables are securely connected. Check the LINK/ACT LEDs for activity. Ensure IP configurations are correct.
- **Cannot Access Web Interface:** Confirm your computer's IP address is in the same subnet as the FortiGate's management interface. Try clearing your browser cache or using a different browser.
- **Slow Performance:** Check network utilization and resource usage on the FortiGate. Review security policies for any configurations that might be impacting performance.
- **Security Alerts:** Investigate any security alerts or warnings displayed in the management interface. Consult Fortinet documentation or support for specific alert meanings.
- **Reset to Factory Defaults:** As a last resort, you can perform a factory reset using the RESET button or through the command-line interface (CLI). *Note: This will erase all configurations.*

## 8. SPECIFICATIONS

Detailed technical specifications for the FortiGate-60F:



Figure 3: Physical dimensions and weight of the FortiGate-60F. Height x Width x Length: 1.5 x 8.5 x 6.3 inches. Weight: 2.23 pounds.

# FortiGate 60F Specifications

Performance Specifications	
IPS Throughput	1.4 Gbps
NGFW Throughput	1 Gbps
Threat Protection Throughput	700 Mbps
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	10/10/6 Gbps
Firewall Throughput (Packets Per Second)	9 Mpps
IPsec VPN Throughput (512 byte)	6.5 Gbps

Figure 4: Performance specifications for FortiGate 60F. Includes IPS Throughput (1.4 Gbps), NGFW Throughput (1 Gbps), Threat Protection Throughput (700 Mbps), Firewall Throughput (1518 / 512 / 64 byte UDP packets) (10/10/6 Gbps), Firewall Throughput (Packets Per Second) (9 Mpps), and IPsec VPN Throughput (512 byte) (6.5 Gbps).

- **Product Dimensions:** 6 x 9 x 2 inches
- **Item Weight:** 2 pounds
- **Item Model Number:** FortiGate-60F
- **Manufacturer:** Fortinet
- **Brand:** FORTINET
- **Model Name:** 60F-5YR-UTP
- **Special Feature:** WPS
- **Frequency Band Class:** Dual-Band
- **Wireless Communication Standard:** 802.11ac
- **Compatible Devices:** Computer
- **Connectivity Technology:** Wired
- **Color:** Multicolor
- **Antenna Type:** Internal
- **Date First Available:** November 4, 2019

## 9. WARRANTY AND SUPPORT

The FortiGate-60F bundle includes 5 years of FortiCare Premium and FortiGuard Unified Threat Protection, ensuring comprehensive support and security updates.

## Subscriptions

Service Category	Service Offering	A-la-carte	Bundles		
			Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiGuard Security Services	IPS Service	•	•	•	•
	Anti-Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
	URL, DNS & Video Filtering Service	•	•	•	•
	Anti-Spam		•	•	
	AI-based Inline Malware Prevention Service	•	•		
	Data Loss Prevention Service <sup>1</sup>	•	•		
	OT Security Service (OT Detection, OT Vulnerability correlation, Virtual Patching, OT Signature / Protocol Decoders) <sup>1</sup>	•			
	Application Control		included with FortiCare Subscription		
	CASB SaaS Control		included with FortiCare Subscription		
SD-WAN and SASE Services	SD-WAN Underlay Bandwidth and Quality Monitoring Service	•			
	SD-WAN Overlay-as-a-Service for SaaS-based overlay network provisioning	•			
	SD-WAN Connector for FortiSASE Secure Private Access	•			
	FortiSASE subscription including cloud management and 10Mbps bandwidth license <sup>2</sup>	•			
NOC and SOC Services	FortiGuard Attack Surface Security Service (IoT Detection, IoT Vulnerability Correlation, and Security Rating Updates) <sup>1</sup>	•	•		
	FortiConverter Service	•	•		
	Managed FortiGate Service	•			
	FortiGate Cloud (SMB Logging + Cloud Management)	•			
	FortiAnalyzer Cloud	•			
	FortiAnalyzer Cloud with SOCaas	•			
	FortiGuard SOCaas	•			
Hardware and Software Support	FortiCare Essentials	•			
	FortiCare Premium		•	•	•
	FortiCare Elite		•		
Base Services	Internet Service (SaaS) DB Updates		included with FortiCare Subscription		
	GeoIP DB Updates				
	Device/OS Detection Signatures				
	Trusted Certificate DB Updates				
	DDNS (v4/v6) Service				

1. Full features available when running FortiOS 7.4.1

2. Desktop Models only

Figure 5: Table detailing various FortiGuard Security Services, SD-WAN and SASE Services, NOC and SOC Services, Hardware and Software Support (including FortiCare Essentials, Premium, Elite), and Base Services. Indicates which services are included with Enterprise Protection, Unified Threat Protection, and Advanced Threat Protection bundles.

- **FortiCare Premium:** Provides advanced support, including technical assistance, hardware replacement, and access to firmware updates.
- **FortiGuard Unified Threat Protection (UTP):** Offers a suite of security services such as IPS, Anti-Malware, Web Filtering, and Anti-Spam to protect against a wide range of threats.
- **Additional Protection Plans:** For extended coverage, consider additional protection plans such as the 4-Year Protection Plan or Complete Protect, available separately.

For detailed information on your specific service entitlements and to access support resources, please visit the official Fortinet support portal or refer to the documentation provided on the included CD.