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## FORTINET FG-120G-BDL-950-36

# FORTINET FortiGate-120G Network Security Appliance User Manual

Model: FG-120G-BDL-950-36

## 1. INTRODUCTION

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The FortiGate-120G is a robust network security appliance designed for comprehensive threat protection in diverse enterprise environments. This device integrates advanced security features with reliable support services to ensure network integrity and performance.

Key features include:

- **Comprehensive Hardware and Service Package:** Includes the FortiGate-120G appliance with 3 years of FortiCare Premium and FortiGuard Unified Threat Protection (UTP).
- **Unified Threat Protection (UTP) Bundle:** Provides defense against web and DNS-based threats through advanced filtering and security features such as ATP, DNS filtering, URL filtering, video filtering, and anti-botnet services.
- **Enhanced Web Security:** Offers high-level web security suitable for various enterprise environments requiring strong protective measures against online threats.
- **Extended Support and Service:** FortiCare Premium ensures dependable technical support for seamless operation and efficient issue resolution.
- **Optimal for Diverse Deployment:** Suitable for organizations with complex network environments seeking comprehensive security solutions.

## 2. DEVICE OVERVIEW

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The FortiGate-120G appliance features multiple connectivity options and indicators for status monitoring.

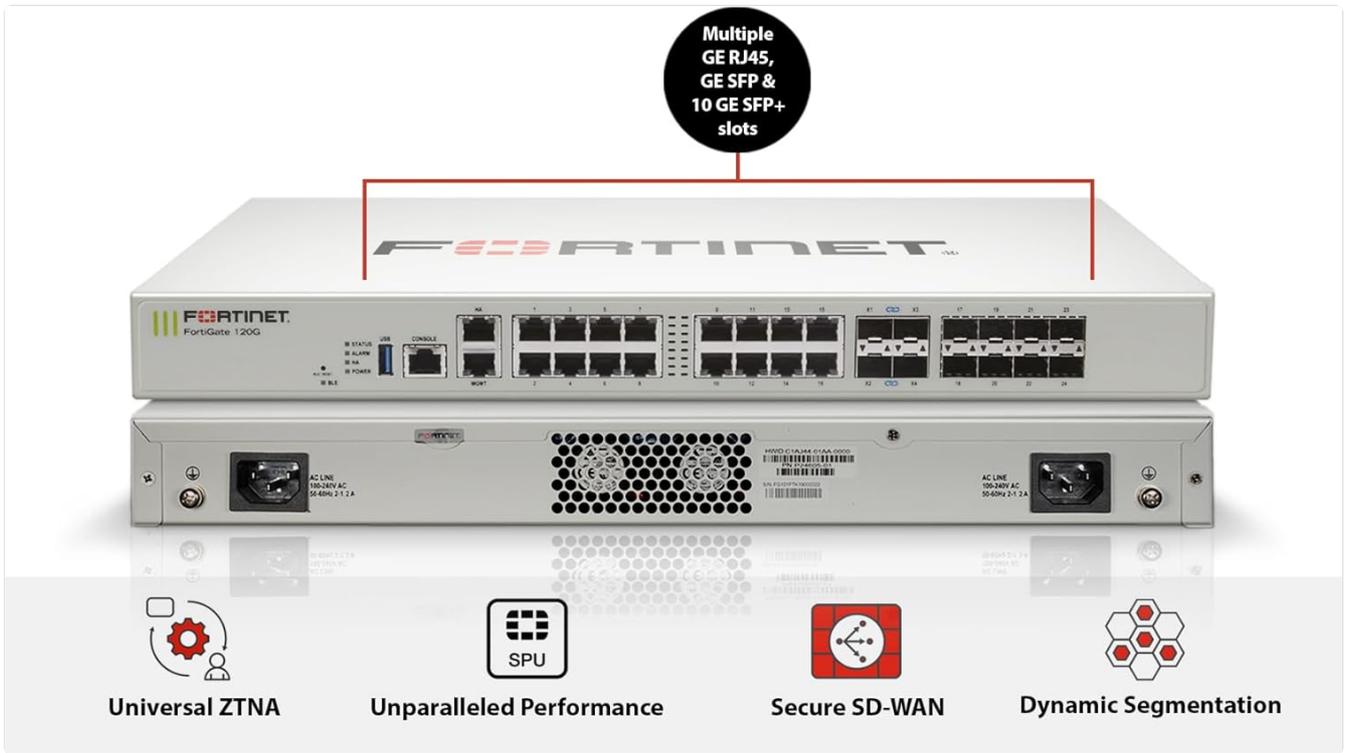
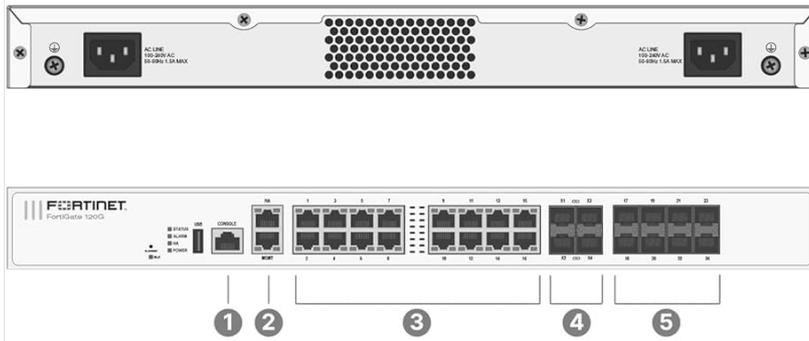


Figure 2.1: Front and back view of the FortiGate-120G appliance, highlighting multiple GE RJ45, GE SFP, and 10 GE SFP+ slots, along with Universal ZTNA, Unparalleled Performance, Secure SD-WAN, and Dynamic Segmentation capabilities.

### FortiGate 120G/121G



#### Interfaces

1. 1x RJ45 Console Port
2. 2x RJ45 HA and Management Ports
3. 16x GE RJ45 Ports
4. 4x 10GE SFP+ FortiLink Slots
5. 8x SFP Ports

#### Hardware Features

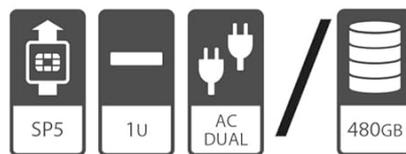


Figure 2.2: Detailed view of the FortiGate-120G, illustrating the interfaces including RJ45 Console Port, HA and Management Ports, GE RJ45 Ports, 10GE SFP+ FortiLink Slots, and SFP Ports. Hardware features such as SP5, 1U form factor, AC Dual power, and 480GB storage are also depicted.

### Interfaces:

1. 1x RJ45 Console Port
2. 2x RJ45 HA and Management Ports
3. 16x GE RJ45 Ports

4. 4x 10GE SFP+ FortiLink Slots
5. 8x SFP Ports

## 3. SETUP INSTRUCTIONS

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Follow these steps to set up your FortiGate-120G Network Security Appliance.

### 3.1. Device Registration

Register your device at [fortinet.com/register](https://fortinet.com/register) to access cloud management, FortiGuard updates, firmware upgrades, technical support, and warranty coverage.

### 3.2. Initial Configuration Options

You can configure your FortiGate-120G using one of the following methods:

#### A. Local Setup

1. Connect port 1 on the FortiGate to your computer.
2. Ensure DHCP is enabled on your computer, or manually set your IP address to 192.168.1.1 with a subnet mask of 255.255.255.0.
3. Open a web browser and navigate to 192.168.1.99.

#### B. Cloud Setup

1. Visit [forticloud.com](https://forticloud.com) in a web browser and log in using your FortiNetOne credentials.
2. Click 'Add FortiGate' and enter the FortiCloud Key. The FortiCloud Key is typically found on a sticker on the device.

#### C. iOS Setup

1. Download and launch the FortiExplorer iOS App from the App Store.
2. Connect the USB port of your iOS device to the FortiGate's USB port.
3. Tap the device when it appears in FortiExplorer.

*Note: For detailed video instructions, refer to [fortinet.net/fg-setup](https://fortinet.net/fg-setup).*



*Figure 3.1: Rear view of the FortiGate-120G, showing the dual AC power inputs (100-240V AC, 50-60Hz, 1.5A Max) for redundant power supply.*

## 4. OPERATING THE APPLIANCE

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Once configured, the FortiGate-120G provides continuous network security and management. The included FortiGuard Unified Threat Protection (UTP) and FortiCare Premium services enhance its operational capabilities.

### 4.1. Unified Threat Protection (UTP)

The UTP bundle actively protects your network by:

- **Advanced Threat Protection (ATP):** Identifies and mitigates sophisticated threats.
- **DNS Filtering:** Blocks access to malicious domains.
- **URL Filtering:** Controls access to websites based on categories and reputation.
- **Video Filtering:** Manages access to streaming video content.
- **Anti-Botnet Services:** Detects and prevents communication with botnet command and control servers.

### 4.2. Status Indicators

Monitor the LED indicators on the front panel for device status:

- **PWR:** Indicates power status.
- **STATUS:** General device operational status.
- **HA:** High Availability status.
- **LINK/ACT:** Link and activity status for each port.
- **SPEED:** Connection speed for each port.

## 5. MAINTENANCE

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Regular maintenance ensures optimal performance and security of your FortiGate-120G appliance.

### 5.1. Firmware Updates

Periodically check for and apply the latest firmware updates from the Fortinet support portal. Firmware updates often include security patches and new features.

### 5.2. Monitoring and Logging

Utilize the device's management interface to monitor network traffic, security events, and system logs. This helps in identifying potential issues and ensuring compliance.

### 5.3. Physical Care

- Ensure the device is placed in a well-ventilated area to prevent overheating.
- Keep the device free from dust and debris.
- Verify all cable connections are secure.

## 6. TROUBLESHOOTING

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This section provides basic troubleshooting steps for common issues. For advanced problems, refer to FortiCare Premium support.

### 6.1. No Power

- Verify the power cables are securely connected to both the appliance and a working power outlet.
- Check the power LED indicator on the front panel. If it is off, try a different power outlet or power cable.

### 6.2. Network Connectivity Issues

- Check the LINK/ACT LEDs for the connected ports. A solid green or amber light indicates a link, and a blinking light indicates activity.
- Ensure Ethernet cables are properly connected and not damaged.
- Verify network configuration settings (IP addresses, subnet masks, gateways) in the device's management interface.

### 6.3. Slow Performance

- Monitor CPU and memory usage through the management interface. High utilization may indicate heavy traffic or a configuration issue.
- Check for any active security policies that might be impacting performance.
- Ensure the device firmware is up to date.

## 7. SPECIFICATIONS

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Detailed technical specifications for the FortiGate-120G Network Security Appliance.

### FortiGate 120G Specifications

IPS Throughput	5.3 Gbps
NGFW Throughput	3.1 Gbps
Threat Protection Throughput	2.8 Gbps
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	39/39/28 Gbps
Firewall Throughput (Packets Per Second)	42 Mpps
IPsec VPN Throughput (512 byte)	35 Gbps

*Figure 7.1: Performance specifications for the FortiGate 120G, including IPS Throughput, NGFW Throughput, Threat Protection Throughput, Firewall Throughput (1518 / 512 / 64 byte UDP packets), Firewall Throughput (Packets Per Second), and IPsec VPN Throughput (512 byte).*

## FortiGate-120G Key Specifications

Feature	Value
Product Dimensions	21.5 x 16.75 x 6 inches
Item Weight	12.5 pounds
Item Model Number	FG-120G-BDL-950-36
Manufacturer	Fortinet
Frequency Band Class	Single-Band
Connectivity Technology	Ethernet
Antenna Type	Internal
Included Components	CD



**Height x Width x Length: 1.73 x 17 x 10 inches**  
**Weight: 12.17 pounds**

Figure 7.2: Side view of the FortiGate-120G, indicating its physical dimensions: Height x Width x Length: 1.73 x 17 x 10 inches, and Weight: 12.17 pounds.

## 8. WARRANTY AND SUPPORT

Your FortiGate-120G appliance includes comprehensive support and protection services.

### 8.1. FortiGuard Unified Threat Protection (UTP)

The purchase includes 3 years of FortiGuard UTP, providing continuous updates for threat intelligence, web filtering, and other security services to keep your network protected against evolving threats.

### 8.2. FortiCare Premium

The package also includes 3 years of FortiCare Premium, offering enhanced technical support. This service provides:

- 24x7 technical support from Fortinet experts.

- Advanced hardware replacement options.
- Access to firmware updates and patches.
- Online support resources and documentation.

For detailed information on your warranty and support services, please visit the official Fortinet support website or contact your Fortinet reseller.

## 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		included with FortiCare Subscription		
	Device/OS Detection Signatures		included with FortiCare Subscription		
	Trusted Certificate DB Updates		included with FortiCare Subscription		
	DDNS (v4/v6) Service		included with FortiCare Subscription		

1. Full features available when running FortiOS 7.4.1  
2. Desktop Models only

Figure 8.1: Table outlining various FortiGuard Security Services, SD-WAN and SASE Services, NOC and SOC Services, and Hardware and Software Support options, indicating which are included in Enterprise Protection, Unified Threat Protection, and Advanced Threat Protection bundles.