

PROPUESTA DE EQUIPOS INFORMATICOS

Ítem 1 75 SWITCH FORTIGATE FG-60F

Para este ítem, estamos ofreciendo el router FortiGate 60F incluyendo su licenciamiento por año con Hardware Plus forticare 24/7 y FortiGuard Unified Protection (UTM)

El FortiGate 60F es un firewall de próxima generación que ofrece un rendimiento de 10 Gbps en cortafuegos, 1.4 Gbps en IPS y 700 Mbps en protección contra amenazas. Sus ventajas incluyen integración de SD-WAN, administración centralizada, y un diseño compacto sin ventilador, ideal para pequeñas y medianas empresas. **Especificaciones Técnicas del FortiGate 60F**

- **Tipo de dispositivo:** Firewall de próxima generación (NGFW)
- **Puertos:**
 - 10 puertos GE RJ45 (7 internos, 2 WAN, 1 DMZ)
- **Rendimiento:**
 - Velocidad de firewall: hasta 3.5 Gbps
 - Rendimiento de IPS: hasta 1.4 Gbps
 - Rendimiento de NGFW: hasta 700 Mbps
- **Almacenamiento:**
 - Variantes con almacenamiento interno de 128 GB SSD
- **Servicios de seguridad:**
 - Integración de FortiGuard para protección avanzada

Ventajas del FortiGate 60F

- **Seguridad avanzada:** Protección contra amenazas en constante evolución mediante servicios de seguridad integrados.
- **SD-WAN integrado:** Mejora la eficiencia y simplifica la arquitectura de red.
- **Gestión centralizada:** Facilita la administración de redes y seguridad desde una única plataforma.



- **Rendimiento optimizado:** Procesadores SoC patentados que garantizan un alto rendimiento sin comprometer la seguridad.
- **Flexibilidad de implementación:** Variantes disponibles con y sin conectividad WiFi, adaptándose a diferentes necesidades empresariales.





Certificate of Authorized Reseller

Date: 10/02/2025

Junta Central Electoral

Av. 27 de Febrero esquina Av. Luperón, Santo Domingo Oeste, Provincia Santo Domingo
Convocatoria / Bases del Concurso

Comparación de Precios Ref.: JCE-CCC-CP-2025-0004

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Gonzalo Ruiz
VP of Legal and Compliance Americas



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FortiGate® 60F Series

FortiGate 60F and 61F

 Secure SD-WAN
Unified Threat Management


The FortiGate 60F series offers an excellent Security and SD-WAN solution in a compact fanless desktop form factor for enterprise branch offices and mid-sized businesses. Protect against cyber threats with industry-leading secure SD-WAN in a simple, affordable and easy to deploy solution.

Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevent and detect against known and unknown attacks using continuous threat intelligence from AI powered FortiGuard Labs security services

Performance

- Delivers industry's best threat protection performance and ultra-low latency using purpose-built security processor (SPU) technology
- Provides industry-leading performance and protection for SSL encrypted traffic

Certification

- Independently tested and validated best security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs, ICSA, Virus Bulletin and AV Comparatives

Networking

- Best of Breed SD-WAN capabilities to enable application steering using WAN path control for high quality of experience
- Delivers advanced networking capabilities, high-performance, and scalable IPsec VPN capabilities

Management

- Includes Management Console that's effective, simple to use, and provides comprehensive network automation & visibility.
- Provides Zero Touch Integration with Security Fabric's Single Pane of Glass Management
- Predefined compliance checklist analyzes the deployment and highlights best practices to improve overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners' products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing and automated remediation
- Automatically builds Network Topology visualizations which discover IoT devices and provide complete visibility into Fortinet and Fabric-ready partner products

Firewall	IPS	NGFW	Threat Protection	Interfaces
10 Gbps	1.4 Gbps	1 Gbps	700 Mbps	Multiple GE RJ45 Variants with internal storage

Refer to specification table for details

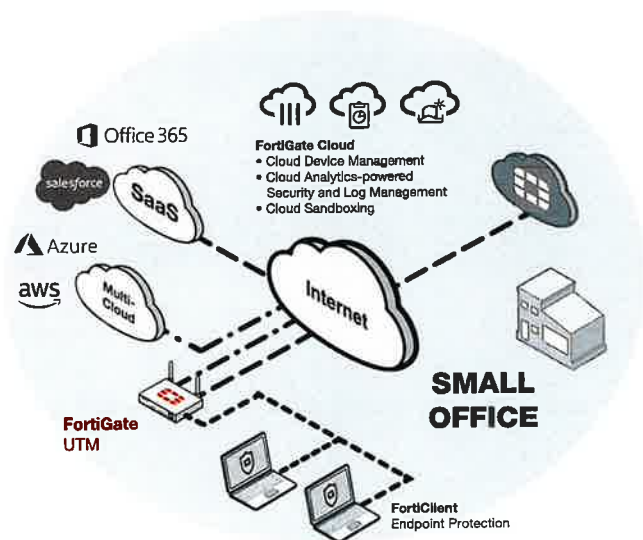


Deployment



Unified Threat Management (UTM)

- Integrated wired and wireless networking to simplify IT
- Purpose-built hardware for industry best performance with easy administration through cloud management
- Provides consolidated security and networking for small businesses and consistently provides top-rated threat protection
- Proactively blocks newly discovered sophisticated attacks in real-time with advanced threat protection

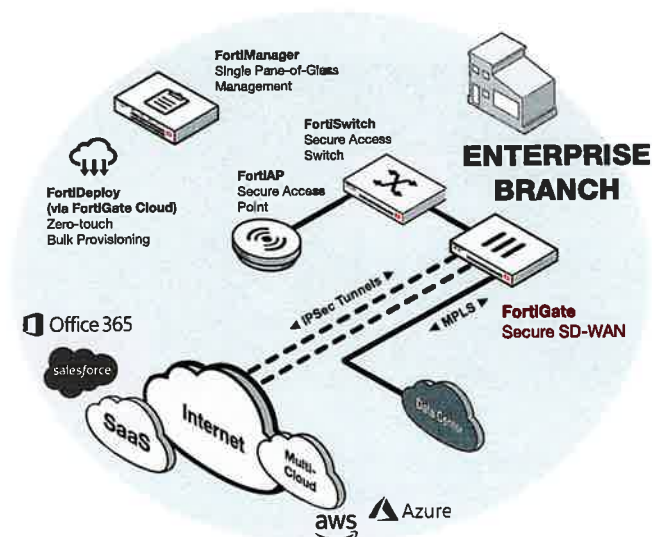


FortiGate 60F deployment in Small Office (UTM)



Secure SD-WAN

- Secure direct Internet access for Cloud Applications for improved latency and reduce WAN cost spending
- High-performance and cost-effective threat protection capabilities
- WAN Path Controller and Link Health Monitoring for better application performance and quality of experience
- Security Processor powered industry's best IPsec VPN and SSL Inspection performance
- Simplified Management and Zero Touch deployment

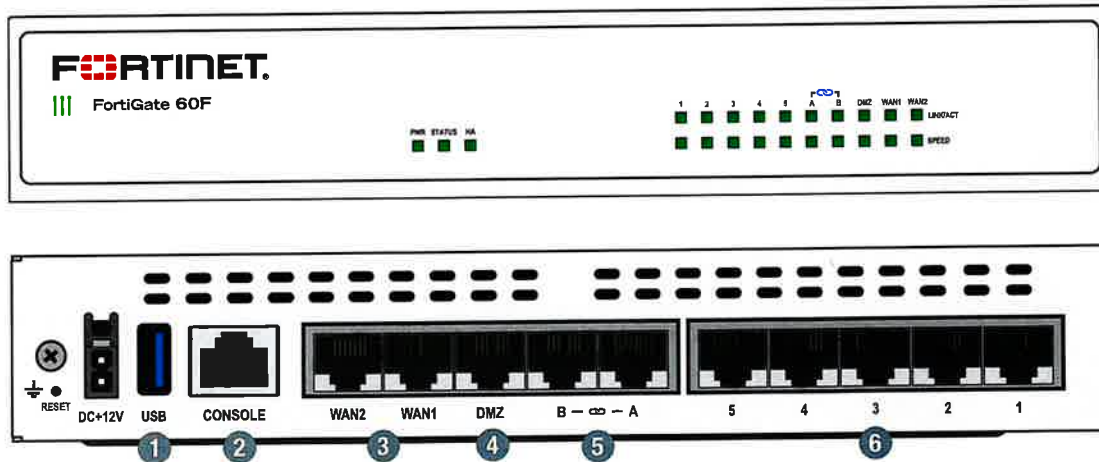


FortiGate 60F deployment in Enterprise Branch (Secure SD-WAN)



Hardware

FortiGate 60F/61F



Interfaces

1. USB Port
2. Console Port
3. 2x GE RJ45 WAN Ports

4. 1x GE RJ45 DMZ Port
5. 2x GE RJ45 FortiLink Ports
6. 5x GE RJ45 Internal Ports

Powered by Purpose-built Secure SD-WAN ASIC SOC4



- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Delivers industry's fastest application identification and steering for efficient business operations
- Accelerates IPsec VPN performance for best user experience on direct internet access
- Enables best of breed NGFW Security and Deep SSL Inspection with high performance
- Extends security to access layer to enable SD-Branch transformation with accelerated and integrated switch and access point connectivity

3G/4G WAN Connectivity

The FortiGate 60F Series includes a USB port that allows you to plug in a compatible third-party 3G/4G USB modem, providing additional WAN connectivity or a redundant link for maximum reliability.

Compact and Reliable Form Factor

Designed for small environments, you can place it on a desktop or wall-mount it. It is small, lightweight yet highly reliable with superior MTBF (Mean Time Between Failure), minimizing the chance of a network disruption.

Extends Security to Access Layer with FortiLink Ports

FortiLink protocol enables you to converge security and the network access by integrating the FortiSwitch into the FortiGate as a logical extension of the NGFW. These FortiLink enabled ports can be reconfigured as regular ports as needed.



Fortinet Security Fabric

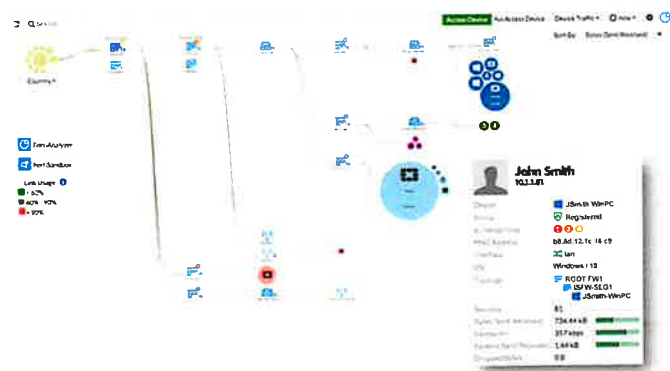
Security Fabric

The Security Fabric delivers broad visibility, integrated AI-driven breach prevention, and automated operations, orchestration, and response across all Fortinet and its ecosystem deployments. It allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly follows and protects data, users, and applications as they move between IoT, devices, and cloud environments throughout the network. All this is tied together under a single pane of glass management for significantly thereby delivering leading security capabilities across your entire environment while also significantly reducing complexity.

FortiGate is the foundation of Security Fabric, expanding security via visibility and control by tightly integrating with other Fortinet security products and Fabric-Ready Partner solutions.

FortiOS

Control all security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce complexity, costs, and response time with a truly consolidated next-generation security platform.



Services



FortiGuard™ Security Services

FortiGuard Labs offers real-time intelligence on the threat landscape, delivering comprehensive security updates across the full range of Fortinet's solutions. Comprised of security threat researchers, engineers, and forensic specialists, the team collaborates with the world's leading threat monitoring organizations and other network and security vendors, as well as law enforcement agencies.



- A truly consolidated platform with a single OS and pane-of-glass for all security and networking services across all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance. Ability to leverage latest technologies such as deception-based security.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Prevent, detect, and mitigate advanced attacks automatically in minutes with integrated AI-driven breach prevention and advanced threat protection.
- Improved user experience with innovative SD-WAN capabilities and ability to detect, contain and isolate threats with Intent-based Segmentation..
- Utilize SPU hardware acceleration to boost security capability performance.



FortiCare™ Support Services

Our FortiCare customer support team provides global technical support for all Fortinet products. With support staff in the Americas, Europe, Middle East, and Asia, FortiCare offers services to meet the needs of enterprises of all sizes.



For more information, please refer to forti.net/fortiguard and forti.net/forticare

Specifications

	FORTIGATE 60F	FORTIGATE 61F
Hardware Specifications		
GE RJ45 WAN / DMZ Ports	2 / 1	
GE RJ45 Internal Ports	5	
GE RJ45 FortiLink Ports	2	
GE RJ45 PoE/+ Ports	—	
Wireless Interface	—	
USB Ports	1	
Console (RJ45)	1	
Internal Storage	—	1x 128 GB SSD
System Performance — Enterprise Traffic Mix		
IPS Throughput ²	1.4 Gbps	
NGFW Throughput ^{2,4}	1 Gbps	
Threat Protection Throughput ^{2,5}	700 Mbps	
System Performance		
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	10/10/6 Gbps	
Firewall Latency (64 byte UDP packets)	4 µs	
Firewall Throughput (Packets Per Second)	9 Mpps	
Concurrent Sessions (TCP)	700,000	
New Sessions/Second (TCP)	35,000	
Firewall Policies	5,000	
IPsec VPN Throughput (512 byte) ¹	6.5 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	200	
Client-to-Gateway IPsec VPN Tunnels	500	
SSL-VPN Throughput	900 Mbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	200	
SSL Inspection Throughput (IPS, avg. HTTPS) ³	750 Mbps	
SSL Inspection CPS (IPS, avg. HTTPS) ³	400	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³	55,000	
Application Control Throughput (HTTP 64K) ²	1.8 Gbps	
CAPWAP Throughput (HTTP 64K)	15 Gbps	
Virtual Domains (Default / Maximum)	10 / 10	
Maximum Number of FortiSwitches Supported	16	
Maximum Number of FortiAPs (Total / Tunnel Mode)	30 / 10	
Maximum Number of FortiTokens	500	
Maximum Number of Registered FortiClients	200	
High Availability Configurations	Active / Active, Active / Passive, Clustering	

FORTIGATE 60F		FORTIGATE 61F
Dimensions		
Height x Width x Length (inches)	1.5 x 8.5 x 6.3	
Height x Width x Length (mm)	38 x 216 x 160	
Weight	1.9 lbs (0.9 kg)	1.9 lbs (0.9 kg)
Form Factor	Desktop	
Operating Environment and Certifications		
Power Required	100–240V AC, 50–60 Hz (External DC Power Adapter, 12 VDC)	
Maximum Current	115V AC / 0.2A, 230V AC / 0.1A	
Total Available PoE Power Budget*	N/A	N/A
Power Consumption (Average / Maximum)	17.0 W / 18.5 W	17.2 W / 18.7 W
Heat Dissipation	63.1 BTU/hr	63.8 BTU/hr
Operating Temperature	32–104°F (0–40°C)	
Storage Temperature	-31–158°F (-35–70°C)	
Humidity	10–90% non-condensing	
Noise Level	Fanless 0 dBA	
Operating Altitude	Up to 7,400 ft (2,250 m)	
Compliance	FCC Part 15 Class B, C-Tick, VCCI, CE, UL/cUL, CB	
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN	

* Maximum loading on each PoE/+ port is 30 W (802.3at).



Note: All performance values are "up to" and vary depending on system configuration.

1. IPsec VPN performance test uses AES256-SHA256.
2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
3. SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.

4. NGFW performance is measured with Firewall, IPS and Application Control enabled.
5. Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

Bundles



FortiGuard Labs delivers a number of security intelligence services to augment the FortiGate firewall platform. You can easily optimize the protection capabilities of your FortiGate with one of these FortiGuard Bundles.

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.2



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