PROPUESTA TECNICA EQUIPOS FORTINET

ad Tiempo de Entrega	2 Semanas		
Cantidad	10	10	
DETALLE DEL REQUERIMIENTO	10 x GE RJ45 ports (including 7 x Internal Ports, 2 x WAN Ports, 1 x DMZ Port).	Unified Threat Protection (UTP) (IPS, Advanced Malware Protection, Application Control, URL, DNS & Video Filtering, Antispam Service, and FortiCare Premium)	
No. de parte	FG-60F	FC-10-0060F-950-02-12	

W W RE





FortiGate FortiWiFi 60F Series

FG-60F, FG-61F, FWF-60F, and FWF-61F



Highlights

Gartner Magic Quadrant Leader for both Network
Firewalls and SD-WAN.

Security-Driven
Networking with FortiOS
delivers converged
networking and security.

Unparalleled Performance with Fortinet's patented SoC processors.

Enterprise Security
with consolidated AI /
ML-powered FortiGuard
Services.

Simplified Operations
with centralized
management for
networking and security,
automation, deep analytics,
and self-healing.

Converged Next-Generation Firewall (NGFW) and SD-WAN

The FortiGate Next-Generation Firewall 60F series is ideal for building security-driven networks at distributed enterprise sites and transforming WAN architecture at any scale.

With a rich set of Al/ML-based FortiGuard security services and our integrated Security Fabric platform, the FortiGate FortiWiFi 60F series delivers coordinated, automated, end-to-end threat protection across all use cases.

FortiGate has the industry's first integrated SD-WAN and zero-trust network access (ZTNA) enforcement within an NGFW solution and is powered by one OS. FortiGate FortiWiFi 60F automatically controls, verifies, and facilitates user access to applications, delivering consistency with a seamless and optimized user experience.

IPS	NGFW	Threat Protection	Interfaces NERGIT. S.A.
1.4 Gbps	1 Gbps	700 Mbps	Multiple GE RJ45 Variants with internal storage WiFi variants



Available in



Appliance



Virtual



Hosted



Container

FortiOS Everywhere

FortiOS, Fortinet's advanced operating system

FortiOS enables the convergence of high performing networking and security across the Fortinet Security Fabric. Because it can be deployed anywhere, it delivers consistent and context-aware security posture across network, endpoint, and multi-cloud environments.

FortiOS powers all FortiGate deployments whether a physical or virtual device, as a container, or as a cloud service. This universal deployment model enables the consolidation of many technologies and use cases into organically built best-of-breed capabilities, unified operating system, and ultra-scalability. The solution allows organizations to protect all edges, simplify operations, and run their business without compromising performance or protection.

FortiOS dramatically expands the Fortinet Security Fabric's ability to deliver advanced AI/ML-powered services, inline advanced sandbox detection, integrated ZTNA enforcement, and more. It provides protection across hybrid deployment models for hardware, software, and Software-as-a-Service with SASE.

FortiOS expands visibility and control, ensures the consistent deployment and enforcement of a simplified, single policy and management framework. Its security policies enable centralized management across large-scale networks with the following key attributes:

- Interactive drill-down and topology viewers that display real-time status
- On-click remediation that provides accurate and quick protection against threats and abuses
- Unique threat score system correlates weighted threats with users to prioritize investigations



Intuitive easy to use view into the network and endpoint vulnerabilities



Visibility with FOS Application Signatures

FortiConverter Service

FortiConverter Service provides hassle-free migration to help organizations transition from a wide range of legacy firewalls to FortiGate Next-Generation Firewalls quickly and easily. The service eliminates errors and redundancy by employing best practices with advanced methodologies and automated processes. Organizations can accelerate their network protection with the latest FortiOS technology.



Domingo



FortiGuard Services

FortiGuard Al-Powered Security

FortiGuard's rich suite of security services counter threats in real time using Al-powered, coordinated protection designed by FortiGuard Labs security threat researchers, engineers, and forensic specialists.

Web Security

Advanced cloud-delivered URL, DNS (Domain Name System), and Video Filtering providing complete protection for phishing and other web born attacks while meeting compliance.

Additionally, its dynamic inline CASB (Cloud Access Security Broker) service is focused on securing business SaaS data, while inline ZTNA traffic inspection and ZTNA posture check provide per-sessions access control to applications. It also integrates with the FortiClient Fabric Agent to extend protection to remote and mobile users.

Content Security

Advanced content security technologies enable the detection and prevention of known and unknown threats and file-based attack tactics in real-time. With capabilities like CPRL (Compact Pattern Recognition Language), AV, inline Sandbox, and lateral movement protection make it a complete solution to address ransomware, malware, and credential-based attacks.

Device Security

Advanced security technologies are optimized to monitor and protect IT, IIoT, and OT (Operational Technology) devices against vulnerability and device-based attack tactics. Its validated near-real-time IPS intelligence detects, and blocks known and zero-day threats, provides deep visibility and control into ICS/OT/SCADA protocols, and provides automated discovery, segmentation, and pattern identification-based policies.

Advanced Tools for SOC/NOC

Advanced NOC and SOC management tools attached to your NGFW provide simplified and faster time-to-activation.

SOC-as-a-Service

Includes tier-one hunting and automation, log location, 24×7 SOC analyst experison analyst experison analyst experison analyst experison analyst experison analyst experison and alert triage.

Fabric Rating Security Best Practices

Includes supply chain virtual patching, up-to-date risk and vulnerability business decisions, and remediation for data breach situations.





Secure Any Edge at Any Scale

Powered by Security Processing Unit (SPU)

Traditional firewalls cannot protect against today's content- and connection-based threats because they rely on off-the-shelf hardware and general-purpose CPUs, causing a dangerous performance gap. Fortinet's custom SPU processors deliver the power you need—up to 520Gbps—to detect emerging threats and block malicious content while ensuring your network security solution does not become a performance bottleneck.

ASIC Advantage



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



FortiCare Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare Services help thousands of organizations get the most from our Fortinet Security Fabric solution. Our lifecycle portfolio offers Design, Deploy, Operate, Optimize, and Evolve services. Operate services offer device-level FortiCare Elite service with enhanced SLAs to meet our customer's operational and availability needs. In addition, our customized account-level services provide rapid incident resolution and offer proactive care to maximize the security and performance of Fortinet deployments.



Use Cases



Next Generation Firewall (NGFW)

- FortiGuard Labs' suite of Al-powered Security Services—natively integrated with your NGFW—secures web, content, and devices and protects networks from ransomware and sophisticated cyberattacks
- Real-time SSL inspection (including TLS 1.3) provides full visibility into users, devices, and applications across the attack surface
- Fortinet's patented SPU (Security Processing Unit) technology provides industry-leading high-performance protection



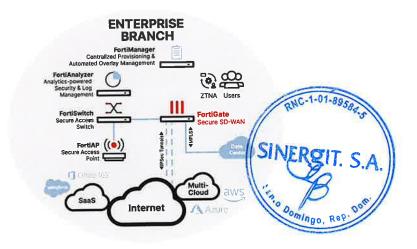
Secure SD-WAN

- FortiGate WAN Edge powered by one OS and unified security and management framework and systems transforms and secures WANs
- Delivers superior quality of experience and effective security posture for work-from-any where models, SD-Branch, and cloud-first WAN use cases
- Achieve operational efficiencies at any scale through automation, deep analytics, and self-healing



Universal ZTNA

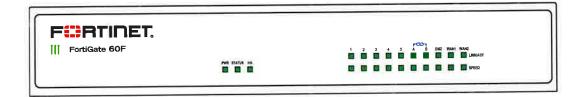
- Control access to applications no matter where the user is and no matter where the application is hosted for universal application of access policies
- Provide extensive authentications, checks, and enforce policy prior to granting application access - every time
- Agent-based access with FortiClient or agentless access via proxy portal for guest or BYOD

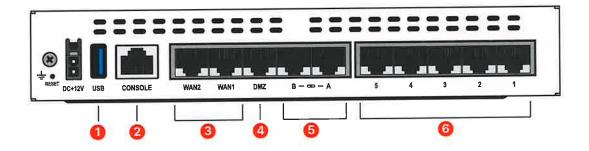




Hardware

FortiGate FortiWiFi 60F/61F





Interfaces

- 1. 1 x USB Port
- 2. 1 x Console Port
- 3. 2 x GE RJ45 WAN Ports
- 4. 1 x GE RJ45 DMZ Port
- 5. 2 x GE RJ45 FortiLink Ports
- 6. 5 x GE RJ45 Internal Ports

Hardware Features







Specifications

	FORTIGATE 60F	FORTIGATE 61F	FORTIWIFI 60F	FORTIWIFI 61F	
Hardware Specifications					
GE RJ45 WAN / DMZ Ports	2/1	2/1	2/1	2/1	
GE RJ45 Internal Ports	5	5	5	5	
GE RJ45 FortiLink Ports (Default)	2	2	2	2	
Wireless Interface	85	-	Single Radio (2,4GHz/5GHz), 802,11 a/b/g/n/ac-W2	Single Radio (2,4GHz/5GHz), 802,11 a/b/g/n/ac-W2	
USB Ports	t	1	1	1	
Console (RJ45)	1	1	1	1	
Internal Storage	· · ·	1 × 128 GB SSD	a)	1 × 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		70	00 Mbps		
System Performance					
Firewall Throughput (1518 / 512 / 64 byte UDP packets)		10/	10/6 Gbps		
Firewall Latency (64 byte UDP packets)			3.3 µs		
Firewall Throughput (Packets Per Second)			Mpps		
Concurrent Sessions (TCP)		7	00 000		
New Sessions/Second (TCP)			35 000		
Firewall Policies			5000		
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	630 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)			8 Gbps		
Virtual Domains (Default / Maximum)			10 / 10		
Maximum Number of FortiSwitches Supported			16		
Maximum Number of FortiAPs (Total / Tunnel Mode)			64 / 32		
Maximum Number of FortiTokens			500		
High Availability Configurations	Active-Active, Active-Passive, Clustering				
Dimensions					
Height x Width x Length (inches)	1,5 × 8,5 × 6,3				
Height x Width x Length (mm)	38,5 × 216 × 160 mm				
Weight	2,23 lbs (1,01 kg)				
Form Factor			Desktop	1.01.00	
Radio Specifications				RNC-1-01-89584.	
Multiple User (MU) MIMO	*			3×3//	
Maximum Wi-Fi Speeds	*		1300 Mbps @ 5 GH:	11	
Maximum Tx Power	-		20		
Antenna Gain	-	151	3,5 dBi @ 5 G H	2 0 001@ 2.4-011	

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

5 Threat Protection performance is measured with Firewall, IPS, Application Source a Malware Protection enabled.



Specifications

	FORTIGATE 60F	FORTIGATE 61F	FORTIWIFI 60F	FORTIWIFI 61F
Operating Environment and Certifications				
Power Rating		12Vc	ic, 3A	
Power Required		Powered by External DC Power	Adapter, 100-240V AC, 50/60 Hz	
Maximum Current		100Vac/1.0A	, 240Vac/0.6A	
Power Consumption (Average / Maximum)	10.17 W / 12.43 W	17.2 W / 18,7 W	17.2 W / 18.7 W	17.5 W / 19.0 W
Heat Dissipation	63,1 BTU/hr	63,8 BTU/hr	63.8 BTU/hr	64.8 BTU/hr
Operating Temperature		32°-104°F	= (0°-40°C)	
Storage Temperature	-31°-158°F (-35°-70°C)			
lumidity	Humidity 10%-90% non-condensing			
Noise Level	Fanless 0 dBA			
Operating Altitude	Up to 7400 ft (2250 m)			
Compliance	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB			
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN			





SUBSCRIPTIONS

			1 5 171	Bundles		
Service Category	Service Offering	A-la-carte	Enterprise Protection	SMB Protection	Unified Threat Protection	Advanced Threat Protection
Security Services	FortiGuard IPS Service				•	
	FortiGuard Anti-Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service			•)	•	74
	FortiGuard Web Security — URL and web content, Video and Secure DNS Filtering			*	•	
	FortiGuard Anti-Spam		2.00			
	FortiGuard IoT Detection Service					
	FortiGuard Industrial Security Service	-	141			
	FortiCloud Al-based Inline Sandbox Service1	455				
NOC Services	FortiGate Cloud (SMB Logging + Cloud Management)) • v		•		
	FortiGuard Security Fabric Rating and Compliance Monitoring Service	5•5)	€.			
	FortiConverter Service	•	•			
	FortiGuard SD-WAN Underlay Bandwidth and Quality Monitoring Service	•				
SOC Services	FortiAnalyzer Cloud	7.02				
	FortiAnalyzer Cloud with SOCaaS					
lardware and Software Support	FortiCare Essentials	3.53				
	FortiCare Premium	•				
	FortiCare Elite	8-8				
Base Services	FortiGuard Application Control					
page del fides	FortiCloud ZTNA Inline CASB Service ¹					
	Internet Service (SaaS) DB Updates		in all dead with FartiCara Subscription			
	GeoIP DB Updates		included with FortiCare Subscription			
	Device/OS Detection Signatures					
	Trusted Certificate DB Updates					
	DDNS (v4/v6) Service					

¹ Available when running FortiOS 7.2



FortiGuard 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.

FortiCare Elite

FortiCare Elite services offers enhanced service-level agreements (SLAs) and accelerated issue resolution. This advanced support offering provides access to a dedicated support team. Single-touch ticket handling by the expert technical team streamlines resolution. This option also provides Extended End-of-Engineering-Support (EoE's) of 18 months for added flexibility and access to the new FortiCare Elite Portal. This intuitive portal provides a single unified view of device and security health.

Fortinet CSR Policy

Fortinet is committed to driving progress and sustainability for all through cybersecurity, with ST. S.A. respect for human rights and ethical business practices, making possible a digital world you can always trust. You represent and warrant to Fortinet that you will not use Fortinet's products and services to engage in, or support in any way, violations or abuses of human rights, including those involving illegal censorship, surveillance, detention, or excessive use of force. Users of Fortinet products are required to comply with the Fortinet EULA and report any suspected violations of the EULA via the procedures outlined in the Fortinet Whistleblower Policy.



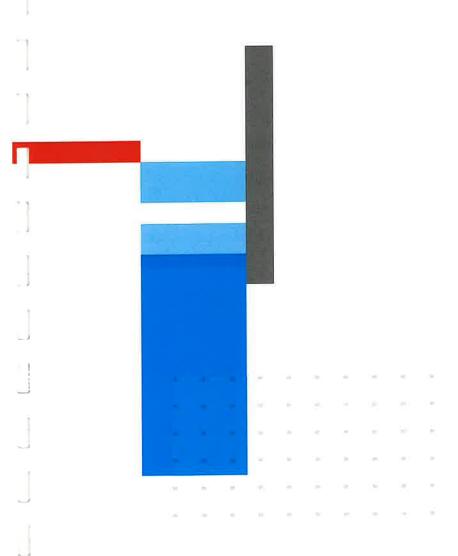
Ordering Information

Product	SKU	Description		
FortiGate 60F	FG-60F	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port)		
FortiGate 61F	FG-61F	10x GE RJ45 ports (including 7x Internal ports, 2x WAN ports, 1x DMZ port), 128 GB SSD onboard storage		
FortiWiFi 60F	FWF-60F-[RC]	10x GE RJ45 ports (including 7x Internal Ports, 2x WAN Ports, 1x DMZ Port), Wireless (802.11 a/b/g/n/ac-W2)		
FortiWiFi 61F	FWF-61F-[RC]	10x GE RJ45 ports (including 7x Internal Ports, 2x WAN Ports, 1x DMZ Port), Wireless (802.11 a/b/g/n/ac-W2), 128GB SSD onboard storage		
Optional Accessori	99			
Rack Mount Tray	SP-RACKTRAY-02	Rack mount tray for all FortiGate E series and F series desktop models are backwards compatible with SP-RackTray-01. For list of compatible FortiGate products, visit our Documentation website, docs.fortinet.com		
AC Power Adaptor	SP-FG60E-PDC-5	Pack of 5 AC power adaptors for FG/FWF 60E/61E, 60F/61F, and 80E/81E		
Wall Mount Kit	SP-FG60F-MOUNT-20	Pack of 20 wall mount kits for FG/FWF-60F and FG/FWF-80F series		

[RC] = regional code: A, B, D, E, F, I, J, N, P, S, V, and Y











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