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Overview

The FortiGate/FortiWiFi 40F series provides a fast and secure SD-WAN solution in a compact fanless desktop form factor for enterprise branch offices and mid-sized businesses. Protects against cyber threats with system-on-a-chip acceleration and industry-leading secure SDWAN in a simple, affordable, and easy to deploy solution. Fortinet's Security-Driven Networking approach provides tight integration of the network to the new generation of security.



Firewall	IPS	NGFW	Threat Protection	Interfaces
5 Gbps	1 Gbps	800 Mbps	600 Mbps	Multiple GE RJ45 WiFi variants

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
- Prevents and detects 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

Networking

- Delivers advanced networking capabilities that seamlessly integrate with advanced layer 7 security and virtual domains (VDOMs) to offer extensive deployment flexibility, multi-tenancy and effective utilization of resources
- Delivers high-density, flexible combination of various high-speed interfaces to enable best TCO for customers for data center and WAN deployments

Management

- Includes a Management Console that is 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 the 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

Deployment

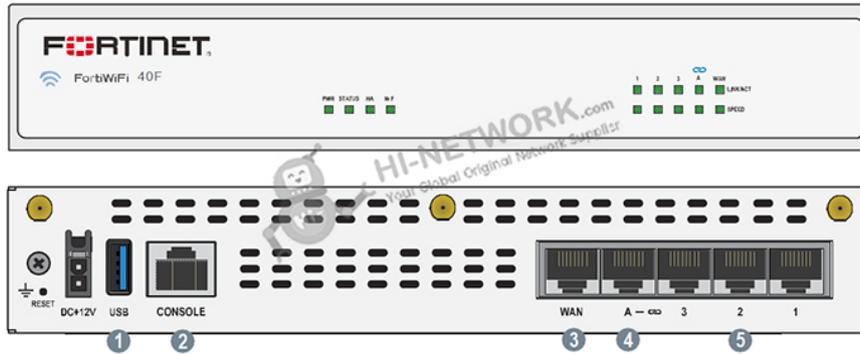
Next Generation Firewall (NGFW)

- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industry-validated IPS that offers low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

Secure SD-WAN

- Consistent business application performance with accurate detection and dynamic WAN path steering on any bestperforming WAN transport
- Accelerated Multi-cloud access for faster SaaS adoption with cloud-on-ramp
- Self-healing networks with WAN edge high availability, subsecond traffic switchover-based and real-time bandwidth compute-based traffic steering
- Automated Overlay tunnels provides encryption and abstracts physical hybrid WAN making it simple to manage
- Simplified and intuitive workflow with FortiManger for management and zero touch deployment
- Enhanced analytics both real-time and historical provides visibility into network performance and identify anomalies
- Strong security posture with next generation firewall and real-time threat protection

Hardware



Interfaces

(1)	1x USB Port	(4)	1x GE RJ45 FortiLink Port
(2)	1x Console Port	(5)	3x GE RJ45 Ethernet Ports
(3)	1x GE RJ45 WAN Port		

Hardware Features



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 the 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 40F 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 a 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.

Fabric Security

Security Fabric

The Security Fabric is the cybersecurity platform that enables digital innovations. It delivers broad visibility of the entire attack surface to better manage risk. Its unified and integrated solution reduces the complexity of supporting multiple-point products, while automated workflows increase operational speeds and reduce response times across the Fortinet deployment ecosystem. The Fortinet Security Fabric covers the following key areas under a single management center:

- **Security-Driven Networking** that secures, accelerates, and unifies the network and user experience
- **Zero Trust Network** Access that identifies and secures users and devices in real-time, on and off of the network
- **Dynamic Cloud Security** that protects and controls cloud infrastructures and applications
- **AI-Driven Security Operations** that automatically prevents, detects, isolates, and responds to cyber threats

FortiOS

FortiGates are the foundation of the Fortinet Security Fabric—the core is FortiOS. All security and networking capabilities across the entire FortiGate platform are controlled with one intuitive operating system. FortiOS reduces complexity, costs, and response times by truly consolidating next-generation security products and services into one platform.

- A truly consolidated platform with a single OS and pane-of-glass across the entire digital attack surface
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance
- Leverage the 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
- Automatically prevent, detect, and mitigate advanced attacks within minutes with an integrated AI-driven security and advanced threat protection
- Improve and unify the user experience with innovative SD-WAN capabilities with the ability to detect, contain, and isolate threats with automated segmentation

- Utilize SPU hardware acceleration to boost network security performance

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.

FortiCare™ Services

Fortinet is dedicated to helping our customers succeed, and every year FortiCare services help thousands of organizations get the most from their Fortinet Security Fabric solution. We have more than 1000 experts to help accelerate technology implementation, provide reliable assistance through advanced support, and offer proactive care to maximize security and performance of Fortinet deployments.

Get More Information

Do you have any question about the FG-40F?

Contact us now via info@hi-network.com.

Specification

FG-40F Specification

Model	FortiGate 40F	FortiWifi 40F
Interfaces and Modules		
GE RJ45 WAN / DMZ Ports	1	
GE RJ45 Internal Ports	3	
GE RJ45 FortiLink Ports	1	
GE RJ45 PoE/+ Ports	-	
Wireless Interface	-	Single Radio (2.4GHz/5GHz) 802.11 /a/b/g/n/ac-W2
USB Ports	1	
Console (RJ45)	1	
Onboard Storage	-	

FortiGate 40F

Datasheet



Included Transceivers	-	
System Performance — Enterprise Traffic Mix		
IPS Throughput	1 Gbps	
NGFW Throughput	800 Mbps	
Threat Protection Throughput	600 Mbps	
System Performance		
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	5/5/5 Gbps	
Firewall Latency (64 byte UDP packets)	2.97 μ s	
Firewall Throughput (Packets Per Second)	7.5 Mpps	
Concurrent Sessions (TCP)	700,000	
New Sessions/Second (TCP)	35,000	
Firewall Policies	5,000	
IPsec VPN Throughput (512 byte)	4.4 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	200	
Client-to-Gateway IPsec VPN Tunnels	250	
SSL-VPN Throughput	490 Mbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	200	
SSL Inspection Throughput (IPS, avg. HTTPS)	310 Mbps	
SSL Inspection CPS (IPS, avg. HTTPS)	320	
SSL Inspection Concurrent Session (IPS, avg. HTTPS)	55,000	
Application Control Throughput (HTTP 64K)	990 Mbps	
CAPWAP Throughput (HTTP 64K)	3.5 Gbps	
Virtual Domains (Default / Maximum)	10 / 10	
Maximum Number of FortiSwitches Supported	8	
Maximum Number of FortiAPs (Total / Tunnel Mode)	16 / 8	
Maximum Number of FortiTokens	500	
High Availability Configurations	Active / Active, Active / Passive, Clustering	
Dimensions		
Height x Width x Length (inches)	1.5 x 8.5 x 6.3	
Height x Width x Length (mm)	38.5 x 216 x 160	
Weight	2.2 lbs (1 kg)	
Form Factor	Desktop	
Input rating	12Vdc, 3A	
Power Required	Powered by External DC Power Adapter, 100–240V AC, 50/60 Hz	
Power Consumption (Average / Maximum)	7.74 W / 9.46 W	14.6 W / 16.6 W

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Maximum Current	100V AC / 0.2A, 240V AC / 0.1A	
Heat Dissipation	52.55 BTU/hr	56.64 BTU/hr
Operating Environment and Certifications		
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, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB	
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN	
Radio Specifications		
Multiple (MU) MIMO	-	3 x 3
Maximum Wi-Fi Speeds	-	1300 Mbps @ 5 GHz, 450 Mbps @ 2.4 GHz
Maximum Tx Power	-	20 dBm
Antenna Gain	-	3.5 dBi @ 5GHz, 5 dBi @ 2.4 GHz

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