Overview

The FortiGate 100F series combines next generation firewall and SD-WAN capabilities for mid-sized to large enterprise distributed locations. Powered by purpose-built Secure SD-WAN ASIC, FortiGate 100F delivers optimal performance for business-critical applications along with best security effectiveness.

Firewall	IPS	NGFW	Threat Protection	Interfaces
20 Gbps	2.6 Gbps	1.6 Gbps	1 Gbps	Multiple GE RJ45, GE SFP and 10GE SFP+ slots

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 to consolidate networking and security

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

Deployment

Next Generation Firewall (NGFW)

● Reduce complexity by combining threat protection security capabilities into single high-performance network security appliance

● Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual applications in your network traffic

● Delivers industry's highest SSL inspection performance using industry-mandated ciphers while maximizing ROI

● Proactively blocks newly discovered sophisticated attacks in real-time with advanced threat protection

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

● Security Processor powered industry's best IPsec VPN and SSL Inspection performance

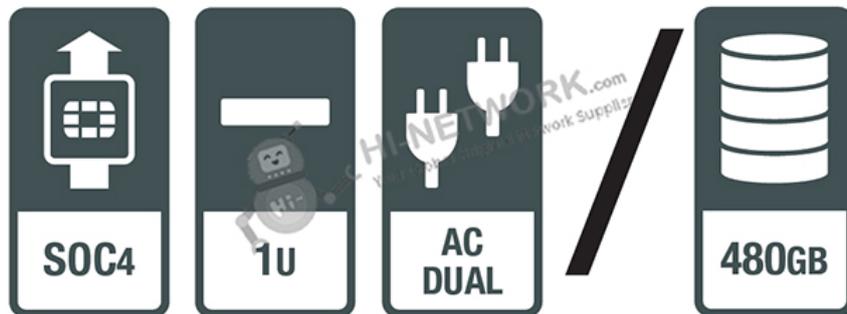● Simplified Management and Zero-Touch deployment

Hardware
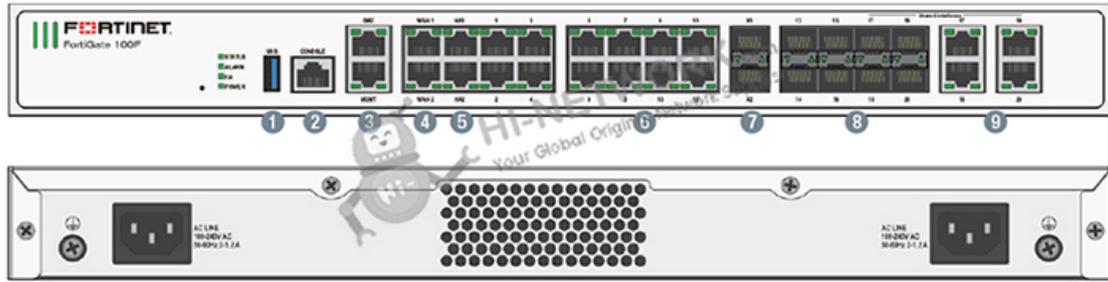
Interfaces

(1)	USB Port	(6)	12x GE RJ45 Ports
(2)	Console Port	(7)	2x 10 GE SFP+ FortiLink Slots
(3)	2x GE RJ45 MGMT/DMZ Ports	(8)	4x GE SFP Slots
(4)	2x GE RJ45 WAN Ports	(9)	4x GE RJ45/SFP Shared Media Pairs
(5)	2x GE RJ45 HA Ports		

Hardware Features

SOC4   1U   AC DUAL   /   480GB

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

Dual Power Supplies

Power supply redundancy is essential in the operation of mission-critical networks. The FortiGate 100F Series offers dual built-in non-hot swappable power supplies.

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 ties together under a single pane of glass management for significantly thereby delivering leading security capabilities across your entire environment while also significantly reducing complexity.
FortiGates are 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.

● Fulfil your networking needs with extensive routing, switching, and SD-WAN capabilities along 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.

Get More Information

Do you have any question about the FG-100F?

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

Specification

FortiGate 100F Specification	
Hardware Specifications	
GE RJ45 Ports	12
GE RJ45 Management/HA/DMZ Ports	1 / 2 / 1
GE SFP Slots	4
10 GE SFP+ Slots	2
GE RJ45 WAN Ports	2
GE RJ45 or SFP Shared Ports *	4

USB Port	1
Console Port	1
Internal Storage	—
Included Transceivers	0

System Performance — Enterprise Traffic Mix	
IPS Throughput2	2.6 Gbps
NGFW Throughput2, 4	1.6 Gbps
Threat Protection Throughput2, 5	1 Gbps

System Performance	
Firewall Throughput (1518 / 512 / 64 byte UDP packets)	20 / 18 / 10 Gbps
Firewall Latency (64 byte UDP packets)	5 μs
Firewall Throughput (Packets Per Second)	15 Mpps
Concurrent Sessions (TCP)	1.5 Million
New Sessions/Second (TCP)	56,000
Firewall Policies	10,000
IPsec VPN Throughput (512 byte)1	11.5 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	2,500
Client-to-Gateway IPsec VPN Tunnels	16,000
SSL-VPN Throughput	750 Mbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	500
SSL Inspection Throughput (IPS, avg. HTTPS) 3	1 Gbps
SSL Inspection CPS (IPS, avg. HTTPS)3	1,800
SSL Inspection Concurrent Session (IPS, avg. HTTPS)3	135,000
Application Control Throughput (HTTP 64K) 2	2.2 Gbps
CAPWAP Throughput (1444 byte, UDP)	15 Gbps
Virtual Domains (Default / Maximum)	10 / 10
Maximum Number of FortiSwitches Supported	24
Maximum Number of FortiAPs (Total / Tunnel Mode)	64 / 32
Maximum Number of FortiTokens	5,000
Maximum Number of Registered FortiClients	600
High Availability Configurations	Active / Active, Active / Passive, Clustering

Dimensions	
Height x Width x Length (inches)	1.73 x 17 x 10
Height x Width x Length (mm)	44 x 432 x 254
Form Factor	Rack Mount, 1 RU

Weight	7.25 lbs (3.29 kg)
Environment	
Power Required	100–240V AC, 60–50 Hz
Maximum Current	100V / 1A, 240V / 0.5A
Power Consumption (Average / Maximum)	35.1 W / 38.7 W
Heat Dissipation	119.77 BTU/h
Environment	
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	-31–158°F (-35–70°C)
Operating Altitude	Up to 7,400 ft (2,250 m)
Humidity	10–90% non-condensing
Noise Level	40.4 dBA
Compliance	FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6

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