

#### **DATA SHEET**

# FortiGate® 100F Series

FG-100F and FG-101F

Next Generation Firewall Secure SD-WAN Secure Web Gateway



The FortiGate 100F series provides an application-centric, scalable, and secure SD-WAN solution with Next Generation Firewall (NGFW) capabilities for mid-sized to large enterprises deployed at the campus or branch level. Protects against cyber threats with system-on-a-chip acceleration and industry-leading secure SD-WAN 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.

#### **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 Al-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 and 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

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

Refer to specification table for details

#### 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, and applications across the entire attack surface, and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industryvalidated 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 Al-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

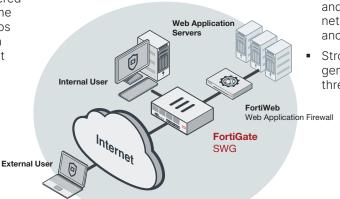


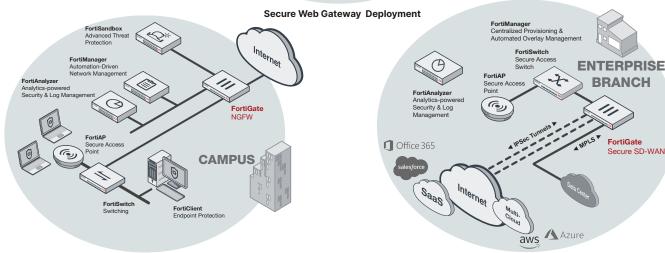
## Secure Web Gateway (SWG)

- Secure web access from both internal and external risks, even for encrypted traffic at high performance
- Enhanced user experience with dynamic web and video caching
- Block and control web access based on user or user groups across URLs and domains
- Prevent data loss and discover user activity to known and unknown cloud applications
- Block DNS requests against malicious domains
- Multi-layered advanced protection against zero-day malware threats delivered over the web



- Consistent business application performance with accurate detection, dynamic WAN path steering on any best-performing WAN transport
- Accelerated multi-cloud access for faster SaaS adoption with cloud-on-
- Self-healing networks with WAN edge high availability, sub-second traffic switchover-based and realtime bandwidth compute-based traffic steering
- Automated overlay tunnels provide 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 identifies anomalies
- Strong security posture with next generation firewall and real-time threat protection





Campus Deployment (NGFW)

**Enterprise Branch Deployment (Secure SD-WAN)** 

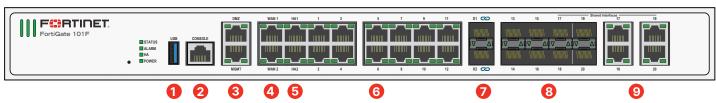


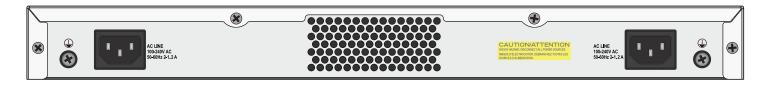
FortiGate

Secure SD-WAN

## **HARDWARE**

## FortiGate 100F/101F





### **Interfaces**

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

#### **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 userexperience 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
- Reduces environmental footprint by saving on average over 60% in power consumption compared to previous generation of FortiGate models

# **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.

## **Access Layer Security**

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 industry's highest-performing cybersecurity platform, powered by FortiOS, with a rich ecosystem designed to span the extended digital attack surface, delivering fully automated, self-healing network security.

- Broad: Coordinated detection and enforcement across the entire digital attack surface and lifecycle with converged networking and security across edges, clouds, endpoints, and users
- Integrated: Integrated and unified security, operation, and performance across different technologies, location, deployment options, and the richest ecosystem
- Automated: Context aware, self-healing network and security posture leveraging cloud-scale and advanced AI to automatically deliver near-real-time, user-to-application coordinated protection across the Fabric

The Fabric empowers organizations of any size to secure and simplify their hybrid infrastructure on the journey to digital innovation.





# FortiOS™ Operating System

FortiOS, Fortinet's leading operating system enable the convergence of high performing networking and security across the Fortinet Security Fabric delivering consistent and context-aware security posture across network endpoint, and clouds. The organically built best of breed capabilities and unified approach allows organizations to run their businesses without compromising performance or protection, supports seamless scalability, and simplifies innovation consumption.

The release of FortiOS 7 dramatically expands the Fortinet Security Fabric's ability to deliver consistent security across hybrid deployment models of Hardware, Software, and Software As-a-Service with SASE and ZTNA, among others.

#### **SERVICES**



# FortiGuard<sup>™</sup> Security Services

FortiGuard Labs offer 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<sup>™</sup> 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.

# **SPECIFICATIONS**

	FORTIGATE 100F FORTIGATE 101F		
Interfaces and Modules			
Hardware Accelerated GE RJ45 Ports	12		
Hardware Accelerated GE RJ45 Management/ HA/ DMZ Ports	1/2/1		
Hardware Accelerated GE SFP Slots	4		
Hardware Accelerated 10 GE SFP+ FortiLink Slots (default)	2		
GE RJ45 WAN Ports	2		
GE RJ45 or SFP Shared Ports *	4		
USB Port	1		
Console Port	1		
Onboard Storage	0 1× 480 GB SSD		
Included Transceivers	0		
System Performance — Enterprise Traffic M	lix		
IPS Throughput <sup>2</sup>	2.6 Gbps		
NGFW Throughput <sup>2, 4</sup>	1.6 Gbps		
Threat Protection Throughput 2,5	1 Gbps		
System Performance and Capacity			
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	20 / 18 / 10 Gbps		
Firewall Latency (64 byte, UDP)	4.97 μs		
Firewall Throughput (Packet 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	2000		
Client-to-Gateway IPsec VPN Tunnels	16 000		
SSL-VPN Throughput	1 Gbps		
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	500		
SSL Inspection Throughput (IPS, avg. HTTPS) <sup>3</sup>	1 Gbps		
SSL Inspection CPS (IPS, avg. HTTPS) <sup>3</sup>	1800		
SSL Inspection Concurrent Session (IPS, avg. HTTPS) <sup>3</sup>	135 000		
Application Control Throughput (HTTP 64K) <sup>2</sup>	2.2 Gbps		
CAPWAP Throughput (HTTP 64K)	15 Gbps		
Virtual Domains (Default / Maximum)	10 / 10		
Maximum Number of FortiSwitches Supported	32		
Maximum Number of FortiAPs (Total / Tunnel)	128 / 64		
Maximum Number of FortiTokens	5000		
High Availability Configurations	Active-Active, Active-Passive, Clustering		

	FORTIGATE 100F	FORTIGATE 101F		
Dimensions and Power				
Height x Width x Length (inches)	1.73 ×	1.73 × 17 × 10		
Height x Width x Length (mm)	44 × 432 × 254			
Weight	7.25 lbs (3.29 kg)	7.56 lbs (3.43 kg)		
Form Factor (supports EIA/non-EIA standards)	Rack Mount, 1 RU			
AC Power Supply	100-240V AC, 50/60 Hz			
Power Consumption (Average / Maximum)	,	35.3 W / 39.1 W		
Current (Maximum)	100V / 1A, 240V / 0.5A			
Heat Dissipation	119.77 BTU/h	121.13 BTU/h		
Redundant Power Supplies	Yes			
Operating Environment and Certifications				
Operating Temperature	32-104°F (0-40°C)			
Storage Temperature	-31–158°F (-35–70°C)			
Humidity	10-90% non	on-condensing		
Noise Level	40.4	40.4 dBA		
Forced Airflow	Side to	Side to Back		
Operating Altitude	Up to 7400	Un to 7400 ft (2250 m)		
Compliance		FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI		
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6			

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



<sup>\*</sup> Copper SFP modules not supported

<sup>1.</sup> IPsec VPN performance test uses AES256-SHA256.

IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
 SSL Inspection performance values use an average of HTTPS sessions of different cipher

suites.

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

## **ORDERING INFORMATION**

Product	SKU	Description	
FortiGate 100F	FG-100F	22x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 16x switch ports with 4 SFP port shared media), 4 SFP ports, 2× 10 GE SFP+ FortiLinks, dual power supplies redundancy.	
FortiGate 101F	FG-101F	22x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 16x sw ports with 4 SFP port shared media), 4 SFP ports, 2× 10 GE SFP+ FortiLinks, 480GB onboard storage, dual power supplies redundancy.	
Optional Accessories	SKU	Description	
1 GE SFP RJ45 Transceiver Module	FN-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+slots.	
1 GE SFP SX Transceiver Module	FN-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.	
1 GE SFP LX Transceiver Module	FN-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.	
10 GE SFP+ RJ45 Transceiver Module	FN-TRAN-SFP+GC	10 GE SFP+ RJ45 transceiver module for systems with SFP+ slots.	
10 GE SFP+ Transceiver Module, Short Range	FN-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.	
10 GE SFP+ Transceiver Module, Long Range	FN-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.	
10 GE SFP+ Transceivers, Extended Range	FN-TRAN-SFP+ER	10 GE SFP+ transceiver module, extended range for all systems with SFP+ and SFP/SFP+ slot	

#### **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.

Bundles	Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiCare	24×7	24×7	24×7
FortiGuard App Control Service	•	•	•
FortiGuard IPS Service	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•
FortiGuard Web and Video¹ Filtering Service	•	•	
FortiGuard Antispam Service	•	•	
FortiGuard Security Rating Service	•		
FortiGuard IoT Detection Service	•		
FortiGuard Industrial Service	•		
FortiConverter Service	•		

1. Available when running FortiOS 7.0  $\,$ 



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