F**E**RTINET.

DATA SHEET FortiGate® 100F Series

FortiGate 100F and 101F

Next Generation Firewall Secure SD-WAN



The FortiGate 100F series delivers next generation firewall capabilities for mid-sized to large enterprises, with the flexibility to be deployed at the campus or enterprise branch. Protect against cyber threats with security processor powered high performance, security efficacy and deep visibility.

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 extensive routing, switching, wireless controller, 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

Firewall	IPS	NGFW	Threat Protection	Interfaces
20 Gbps	1.6 Gbps	800 Mbps	700 Mbps	Multiple GE RJ45, GE SFP and 10 GE SFP+ slots

Refer to specification table for details

Deployment

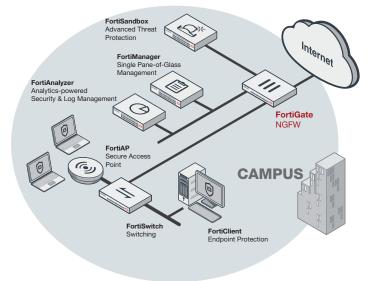


Next Generation Firewall (NGFW)

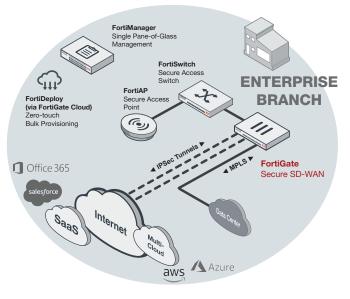
- Reduce complexity by combining threat protection security capabilities into single high-performance network security appliance
- Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual applications in your network traffic
- Delivers industry's 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 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



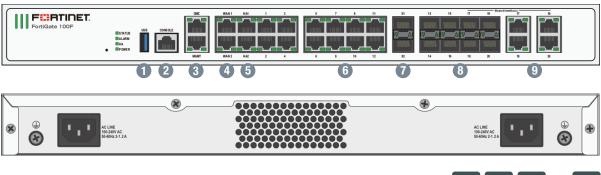
FortiGate 100F/101F deployment in Campus (NGFW)



FortiGate 100F/101F deployment in Enterprise Branch (Secure SD-WAN)

Hardware

FortiGate 100F/101F





Interfaces

1. USB Port

- 2. 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. 2x 10 GE SFP+ FortiLink Slots
- 8. 8x GE SFP Slots
- 9. 4x GE RJ45/SFP Shared Media Pairs

Powered by SPU SoC4



- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Simplifies appliance design and enables breakthrough performance for smaller networks
- Supports firewall acceleration across all packet sizes for maximum throughput
- Delivers accelerated UTM content processing for superior performance and protection
- Accelerates VPN performance for high speed, secure remote access

Dual Power Supplies

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



Fortinet Security Fabric

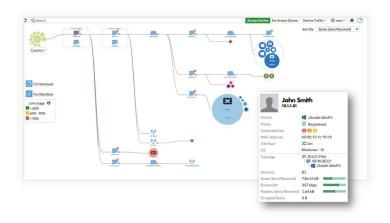
Security Fabric

The Security Fabric delivers broad visibility, integrated Al-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.

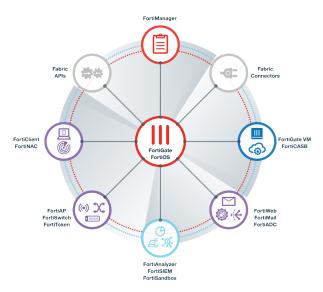


Services



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 Al-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.

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

Specifications

Hardware Specifications 12 GE RJ45 Ports 12 GE RJ45 Management/HA/DMZ Ports 2/2/2 GE SPS Slots 8 GE RJ45 WAN Ports 2 GE RJ45 or SFP Shared Ports* 4 USB Port 1 Console Port 1 Internal Storage — 1x 480 GB SSD Included Transceivers 0 0 System Performance — Enterprise Traffic Mix 1 IPS Throughput ^{2,4} 800 Mbps Threat Protection Throughput ^{2,4} 800 Mbps System Performance - Firewall Throughput (Packets Per Second) 15 Mpps Concurrent Sessions (TCP) 1.5 Million New Sessions/Second (TCP) 56,000 Firewall Throughput (Packets Per Second) 15 Mpps Concurrent Sessions (TCP) 1.5 Million New Sessions/Second (TCP) 56,000 Firewall Throughput (Packets Per Second) 15 Mpps Concurrent Sessions (TCP) 1.6 Mops Sessions/Second (TCP) 56,000 Firewall Throughput (Packets Per Second) </th <th></th> <th>FORTIGATE 100F</th> <th>FORTIGATE 101F</th>		FORTIGATE 100F	FORTIGATE 101F		
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SSL-VPN Throughput 750 Mbps Concurrent SSL-VPN Users 500 (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 135,000 (IPS, avg. HTTPS) ³ 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 FortiTokens 5,000 Maximum Number of FortiTokens 5,000 Maximum Number of Registered FortiClients 600	Gateway-to-Gateway IPsec VPN Tunnels	2,500			
Concurrent SSL-VPN Users500(Recommended Maximum, Tunnel Mode)1SSL Inspection Throughput (IPS, avg. HTTPS) ³ 1SSL Inspection CPS (IPS, avg. HTTPS) ³ 1,800SSL Inspection Concurrent Session135,000(IPS, avg. HTTPS) ³ 2.2 GbpsCAPWAP Throughput (1444 byte, UDP)15 GbpsVirtual Domains (Default / Maximum)10 / 10Maximum Number of FortiSwitches Supported24Maximum Number of FortiTokens5,000Maximum Number of FortiTokens5,000Maximum Number of Registered FortiClients600	Client-to-Gateway IPsec VPN Tunnels	16,000			
(Recommended Maximum, Tunnel Mode) 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	SSL-VPN Throughput	750 Mbps			
SSL Inspection Throughput (IPS, avg. HTTPS) ³ 1 Gbps SSL Inspection CPS (IPS, avg. HTTPS) ³ 1,800 SSL Inspection Concurrent Session 135,000 (IPS, avg. HTTPS) ³ 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 64 / 32 (Total / Tunnel Mode) 5,000 Maximum Number of Registered FortiClients 600	Concurrent SSL-VPN Users	500			
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	(Recommended Maximum, Tunnel Mode)				
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	SSL Inspection Throughput (IPS, avg. HTTPS) ³	1 Gbp	1 Gbps		
(IPS, avg. HTTPS) ³ 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 64 / 32 (Total / Tunnel Mode) 5,000 Maximum Number of Registered FortiClients 600	SSL Inspection CPS (IPS, avg. HTTPS) ³	1,800			
CAPWAP Throughput (1444 byte, UDP) 15 Gbps Virtual Domains (Default / Maximum) 10 / 10 Maximum Number of FortiSwitches Supported 24 Maximum Number of FortiAPs 64 / 32 (Total / Tunnel Mode) 5,000 Maximum Number of Registered FortiClients 600		135,00	00		
Virtual Domains (Default / Maximum) 10 / 10 Maximum Number of FortiSwitches Supported 24 Maximum Number of FortiAPs 64 / 32 (Total / Tunnel Mode) 5,000 Maximum Number of FortiTokens 5,000 Maximum Number of Registered FortiClients 600	Application Control Throughput (HTTP 64K) ²	2.2 Gb	2.2 Gbps		
Maximum Number of FortiSwitches Supported 24 Maximum Number of FortiAPs 64 / 32 (Total / Tunnel Mode) 5,000 Maximum Number of FortiTokens 5,000 Maximum Number of Registered FortiClients 600	CAPWAP Throughput (1444 byte, UDP)	15 Gb			
Maximum Number of FortiAPs 64 / 32 (Total / Tunnel Mode) 5,000 Maximum Number of FortiTokens 5,000 Maximum Number of Registered FortiClients 600	Virtual Domains (Default / Maximum)	10 / 10			
Maximum Number of FortiAPs 64 / 32 (Total / Tunnel Mode) 5,000 Maximum Number of FortiTokens 5,000 Maximum Number of Registered FortiClients 600	Maximum Number of FortiSwitches Supported	24			
Maximum Number of FortiTokens 5,000 Maximum Number of Registered FortiClients 600	Maximum Number of FortiAPs	64/3	2		
Maximum Number of Registered FortiClients 600	•••••••••••••••••••••••••••••••••••••••	5.00	 D		
	High Availability Configurations		Passive. Clustering		

	FORTIGATE 100F	FORTIGATE 101F		
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	Back Mo	Back Mount 1 BU		
Weight	7.25 lbs (3.29 kg)	7.56 lbs (3.43 kg)		
Environment				
Power Required	100–240V A	100–240V AC, 60–50 Hz		
Maximum Current	100V / 1A, 2	100V / 1A, 240V / 0.5A		
Power Consumption (Average / Maximum)	35.1 W / 38.7 W	35.3 W / 39.1 W		
Heat Dissipation	119.77 BTU/h	121.13 BTU/h		
Environment				
Operating Temperature	32-104°F (0-40°C)			
Storage Temperature	21 158°E (25 70°C)			
Operating Altitude	Un to 7 400 ft (2 250 m)			
Humidity	10_90% nor	10–90% non-condensing		
Noise Level	40.4	40.4 dBA		
Compliance	FCC Part 15B, Class A, CB.	FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI		
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6			

* Copper SFP module is not supported.

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

IPsec VPN performance test uses AES256-SHA256.
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.

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.



Order 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, 2x 10G SFP+ FortiLinks, dual power supplies redundancy. Max managed FortiAPs (Total / Tunnel) 64 / 32.
FortiGate 101F	FG-101F	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, 2x 10G SFP+ FortiLinks, 480 GB onboard storage, dual power supplies redundancy. Max managed FortiAPs (Total / Tunnel) 64 / 32.
Optional Accessories		
External redundant AC power supply	FRPS-100	External redundant AC power supply for up to 4 units: FG-100/101E, FG-300C, FG-310B, FS-348B and FS-448B. Up to 2 units: FG-200B, FG-200D, FG-200/201E, FG-240D and FG-300D, FG-400D, FG-500D, FG-600D, FHV-500D, FDD-200B, FDD-400B, FDD-600B and FDD-800B.
1 GE SFP LX transceiver module	FG-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP RJ45 transceiver module	FG-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+slots.
1 GE SFP SX transceiver module	FG-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.
10 GE SFP+ transceiver module, short range	FG-TRAN-SFP+SR	10 GE SFP+ transceiver module, short range for all systems with SFP+ and SFP/SFP+ slots.

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	360 Protection	Enterprise Protection	UTM	Threat Protection
FortiCare	ASE 1	24x7	24x7	24x7
FortiGuard App Control Service	•	•	٠	٠
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	٠	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard Industrial Service	•	•		
FortiCASB SaaS-only Service	•	•		
FortiConverter Service	•			
SD-WAN Cloud Assisted Monitoring ²	•			
SD-WAN Overlay Controller VPN Service ²	•			
FortiAnalyzer Cloud ²	•			
FortiManager Cloud ²	•			

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



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