



Fortinet FG-101F

Datasheet



Product Overview

- The FortiGate 101F series is designed to provide an application-centric, scalable, and secure SD-WAN solution with advanced Next Generation Firewall (NGFW) capabilities. Ideal for mid-sized to large enterprises, this device is optimized for deployment at campus or branch levels.
- Featuring 22 versatile GE RJ45 ports, including WAN, DMZ, management, HA, and switch ports, the FG-101F ensures extensive connectivity options. The device also includes 4 GE SFP slots and 2 10 GE SFP+ FortiLink slots for high-speed data transmission.
- The FG-101F offers robust performance with system-on-a-chip acceleration, delivering industry-leading secure SD-WAN. This ensures optimal protection against cyber threats while maintaining high network performance.
- Fortinet's Security-Driven Networking approach integrates network functionalities with next-generation security measures, providing a simple, affordable, and easy-to-deploy solution. The device supports centralized management, making it easy to administer multiple units from a single console.

Product Highlights

- Versatile Connectivity:** 22 GE RJ45 ports including WAN, DMZ, management, HA, and switch ports.
- High Performance:** IPS throughput of 2.6 Gbps, NGFW throughput of 1.6 Gbps, and threat protection throughput of 1 Gbps.
- Advanced Security:** System-on-a-chip acceleration with industry-leading secure SD-WAN.
- Scalable Architecture:** Supports up to 10 virtual domains and 128 FortiAPs.
- Compact Design:** 1 RU rack mount form factor, suitable for various deployment scenarios.
- Redundant Power Supplies:** Ensures high availability and reliability.

Detailed Features



FG-101F

Component	Specification
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



Comprehensive Port Options

Includes 12 hardware-accelerated GE RJ45 ports, 4 GE SFP slots, 2 10 GE SFP+ FortiLink slots, and 4 shared media GE RJ45/SFP ports.

Enterprise-Grade Performance

Achieves up to 20 Gbps IPv4 firewall throughput with minimal latency of 4.97 µs.

Robust Security Suite

Supports SSL-VPN, IPsec VPN, firewall policies, advanced threat protection, and application control features.

User-Friendly Management

Centralized management capabilities for easy administration and consistent security policies across the network.

Redundant Power Supplies

Offers dual power supplies for uninterrupted operation and enhanced reliability.

Scalable and Flexible

Capable of managing up to 64 FortiAPs in total with 32 in tunnel mode, and supports up to 10 virtual domains.

Technical Specifications

Interfaces and Modules

Feature	Value
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	1x 480 GB SSD
Included Transceivers	0

System Performance — Enterprise Traffic Mix

Feature	Value
IPS Throughput	2.6 Gbps
NGFW Throughput	1.6 Gbps
Threat Protection Throughput	1 Gbps



System Performance and Capacity

Metric	Value
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)	11.5 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	2,500
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)	1 Gbps
SSL Inspection CPS (IPS, avg. HTTPS)	1,800
SSL Inspection Concurrent Session (IPS, avg. HTTPS)	135,000
Application Control Throughput (HTTP 64K)	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	5,000
High Availability Configurations	Active/Active, Active/Passive, Clustering



Metric	Value
Height x Width x Length (inches)	1.73 x 17 x 10
Height x Width x Length (mm)	44 x 432 x 254
Weight	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	121.13 BTU/h
Redundant Power Supplies	Yes

Product Comparison

Feature	FG-100F	FG-101F
Onboard Storage	0	1x 480 GB SSD
Included Transceivers	0	0
IPS Throughput	2.6 Gbps	2.6 Gbps
NGFW Throughput	1.6 Gbps	1.6 Gbps
Threat Protection Throughput	1 Gbps	1 Gbps

Accessories

Category	Accessories
Optional Accessories	FortiGate Cloud Management
	FortiAnalyzer Integration
	Additional FortiCare and FortiGuard Licenses



Support & Warranty



24/7 Online Service



3-Year Premium Warranty



Professional Technical Support



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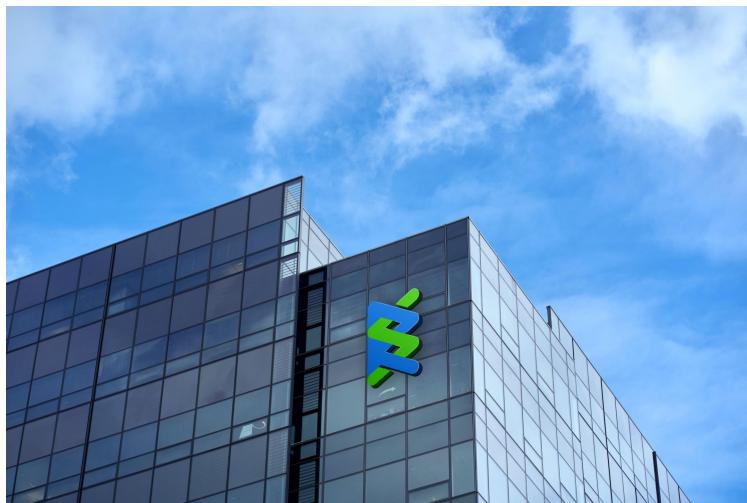


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Shenzhen Branch

Jingfeng Building, 1001 Shangbu South Road, Futian District, Shenzhen, China

UK Branch

Third Floor, 207 Regent Street, London W1B 3HH, UK



References

[1] Fortinet. (n.d.). FortiGate 100F Series Data Sheet. From <https://www.fortinet.com/content/dam/fortinet/assets/data-sheets/pdf/fortigate-100f-series.pdf>.

[2] Router-switch.com. (n.d.). Overview of Fortinet FG-101F. From <https://www.router-switch.com/fg-101f.html>.