

FortiGate®-1500D

High Performance Next Generation/Edge Firewall for the Enterprise



Every day you're on the lookout for sophisticated attacks designed to penetrate your organization and steal valuable information. At the same time, you need to increase network speeds and capacities to accommodate the proliferation of consumer-grade applications and devices. To adequately defend against threats across such a broad range of applications and devices- without slowing down your network- you need a high performance next generation/edge firewall (NGFW) appliance for deep inspection, visibility and control.

Breakthrough Performance

The FortiGate-1500D high performance next generation/edge firewall delivers best in class performance with an exceptional 80 Gbps of firewall and 11 Gbps of next generation threat protection. Custom hardware, including the latest FortiASIC™ NP6 processors, and the consolidated security features of the FortiOS™ 5 network security platform make the difference in enabling protection of your applications and network without affecting availability or performance.

Deeper Visibility

With powerful intrusion prevention, application control and antimalware intelligence, the FortiGate-1500D allows you to look deeper into your content, applications, user and device behavior. Rich console views and reports together with a flexible policy engine provide the visibility and control you need to empower employees yet secure your enterprise.

Key Features & Benefits

Next Generation Threat Protection	Intrusion prevention, application control and antimalware provide superior visibility and protection over traditional firewalls
High Performance Next Generation Firewall	Up to 11 Gbps IPS performance
Custom FortiASIC NP6 processors	The latest in purpose-built processors enable best in class performance and superior cost per gigabit protected
High Speed, High Density Ports	8 x 10-GbE and 16 x GbE ports support evolving network requirements and avoid security bottlenecks
Actionable console and reporting	Provides administrators and executives the visibility they need to define and enforce appropriate policies

Next Generation Visibility and Control

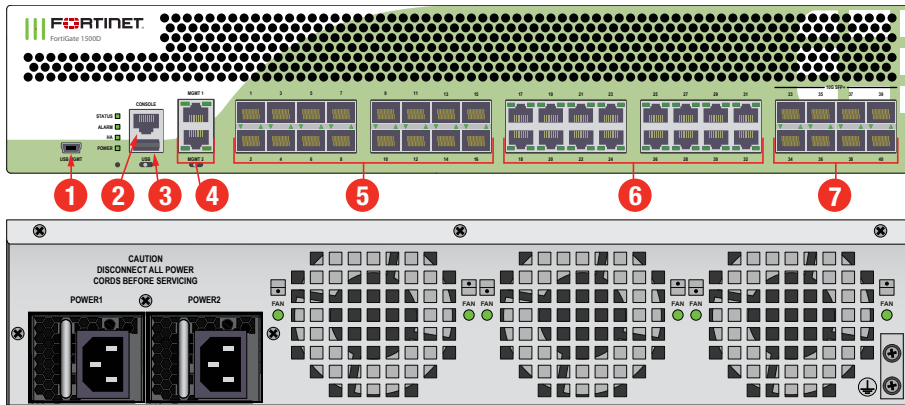
- Powerful application and threat inspection
- Breakthrough performance, and superior cost per gigabit protected
- User- and device-based views and policies
- Freedom to add more functions like Advanced Threat
- Protection and Secure Web Gateway
- FortiOS 5, the most complete, battle-tested set of security functions to protect your network and data



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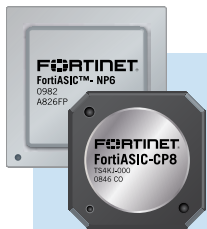


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Interfaces

- | | |
|---|--|
| <ul style="list-style-type: none"> 1 USB Management Port 2 Console Port 3 USB Port | <ul style="list-style-type: none"> 4 2 x GE RJ45 Management Ports 5 16 x GE SFP Slots 6 16 x GE RJ45 Ports 7 8 x 10GE SFP+ Slots |
|---|--|



Powered by
FortiASICs

- Custom FortiASIC™ processors deliver the power you need to detect malicious content at multi-Gigabit speeds
- Other security technologies cannot protect against today's wide range of content- and connection-based threats because they rely on general-purpose CPUs, causing a dangerous performance gap
- FortiASIC processors provide the performance needed to block emerging threats, meet rigorous third-party certifications, and ensure that your network security solution does not become a network bottleneck

Network Processor

Fortinet's new, breakthrough FortiASIC NP6 network processor works inline with FortiOS functions delivering:

- Superior firewall performance for IPv4/IPv6, SCTP and multicast traffic with ultra-low latency down to 3 microseconds
- VPN, CAPWAP and IP tunnel acceleration
- Anomaly-based intrusion prevention, checksum offload and packet defragmentation
- Traffic shaping and priority queuing

Content Processor

The FortiASIC CP8 content processor works outside of the direct flow of traffic, providing high-speed cryptography and content inspection services including:

- Signature-based content inspection acceleration
- Encryption and decryption offloading

10GE Connectivity for Core Infrastructure

High speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate-1500D provides high 10GE port densities, simplifying network designs without relying on additional devices to bridge desired connectivity

HIGHLIGHTS

FortiOS — The World's Most Advanced Security Operating System

- **Feature Select**

Instantly fine-tunes the FortiGate based on desired deployment needs based on desired deployment needs using feature presets. Simplifies user administration and configurations while providing flexibility for different deployment modes.

- **Contextual Visibility**

Presents critical deep insights into historic or real-time network activities with data on threat details, IPs, users, devices, applications and more. Allows administrators to quickly understand threats and stop them.

- **Advanced Security**

Multiple advanced technologies can be coordinated to look for and stop today's blended, targeted or unknown attacks. Efficient packet handling improves performance while lowering latencies and reducing network complexities.

For complete, up-to-date and detailed feature set, please refer to the Administration Handbook and FortiOS Datasheet

Industry Validation

The FortiGate family of physical and virtual appliances has earned more certifications than any other vendor by consistently meeting rigorous third-party standards. Our industry-leading technology provides you with air-tight security which you can safely count on.

World-Class Technical Support and Documentation

Fortinet FortiCare support offerings provide comprehensive global support for all Fortinet products and services. You can rest assured your Fortinet security products are performing optimally and protecting your users, applications, and data around the clock.

More Protection and Better ROI

The FortiGate constantly evolves itself in its mission to provide more value for users. Extended features such as WiFi controller, integrated token server, endpoint control and WAN optimization add more security to organizations without incurring additional cost.

Complete and Real-time Security

Fortinet FortiGuard Subscription Services provide automated, real-time, up-to-date protection against the latest security threats. Our threat research labs are located worldwide, providing 24x7 updates when you most need it.



FortiOS Dashboard — Single Pane of Glass Management

SPECIFICATIONS

Interfaces & Modules	
Hardware Accelerated 10GbE / GbE SFP+ Slots	8
Hardware Accelerated GbE SFP Slots	16
Hardware Accelerated GbE RJ45 Ports	16
GbE RJ45 Management / HA Ports	2
Local Storage	240 GB
USB Ports (Client / Server)	1 / 1
Console Port	1
Onboard Storage	240 GB

System Performance & Capacity	
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	80 / 80 / 55 Gbps
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	80 / 80 / 55 Gbps
Firewall Latency (64 byte, UDP)	3 µs
Firewall Throughput (Packet per Second)	82.5 Mpps
Concurrent Sessions (TCP)	12 Mil
New Sessions/Sec (TCP)	250,000
Firewall Policies	100,000
IPSec VPN Throughput (512 byte packets)	50 Gbps
Gateway-to-Gateway IPSec VPN Tunnels	10,000
Client-to-Gateway IPSec VPN Tunnels	50,000
SSL VPN Throughput	4 Gbps
Concurrent SSL-VPN Users (recommended Max)	10,000
IPS Throughput	11 Gbps
Antivirus Throughput (Proxy Based / Flow Based)	4.3 / 13 Gbps
Virtual Domains (Default / Max)	10 / 250
Max Number of FortiAPs (Total / Tunnel)	4,096 / 1,024
Max Number of FortiTokens	5,000
Max Number of Registered Endpoints	8,000
High Availability Configurations	Active-Active, Active-Passive, Clustering

Dimensions & Power	
Height x Width x Length	3.5 x 17.24 x 21.81 in (89 x 438 x 554 mm)
Weight	32.5 lbs (14.7 kg)
Form Factor	Rack Mount, 2 RU
AC Power Supply	100-240 VAC, 47-63 Hz
Max Current	110V / 8A, 220V / 4A
Power Consumption (Avg / Max)	338 / 406 W
Heat Dissipation	1,385 BTU/h
Redundant Power Supplies	Yes, Hot swappable

Operating Environment & Certifications	
Operating Temperature	32 - 104 deg F (0 - 40 deg C)
Storage Temperature	-31 - 158 deg F (-35 - 70 deg C)
Humidity	20 to 90% non-condensing
Operating Altitude	Up to 7,400 ft (2,250 m)
Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL / cUL, CB
Certifications	ICSA Labs: Firewall, IPSec, IPS, Antivirus, SSL VPN

Note: All performance values are "up to" and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files.

ORDER INFORMATION

Appliance		
FortiGate-1500D	FG-1500D	8 x 10GE SFP+ slots, 16 x GE SFP slots, 18 x GE RJ45 ports (including 16 ports, 2 x management/HA ports), 2x120GB SSD onboard storage, and dual AC power supplies

Accessories		
SFP LX Transceiver Module	FG-TRAN-LX	Transceiver LX module for all FortiGate models with SFP interfaces with LC connector
SFP Gig Copper Transceiver Module	FG-TRAN-GC	Transceiver Base-T (Copper) module for all FortiGate models with SFP interfaces, supports 10/100/1000 operation with RJ45 connector
SFP SX Transceiver Module	FG-TRAN-SX	Transceiver SX module for all FortiGate models with SFP interfaces
SFP+ Transceiver Module	FG-TRAN-SFP+SR	10-Gig transceiver, short range SFP+ module for all FortiGate models with SFP+ interfaces with LC connector
SFP+ Long Range Transceiver Module	FG-TRAN-SFP+LR	10-Gig transceiver, SFP+, Long Range
AC Power Supply	SP-FG1240B-PS	FG-1240B, FG-3040B, FG-3140B, FG-1500D AC Power Supply



GLOBAL HEADQUARTERS

Fortinet Inc.
1090 Kifer Road
Sunnyvale, CA 94086
United States
Tel: +1.408.235.7700
Fax: +1.408.235.7737

EMEA SALES OFFICE

120 rue Albert Caquot
06560, Sophia Antipolis,
France
Tel: +33.4.8987.0510
Fax: +33.4.8987.0501

APAC SALES OFFICE

300 Beach Road #20-01
The Concourse
Singapore 199555
Tel: +65.6513.3730
Fax: +65.6223.6784

LATIN AMERICA SALES OFFICE

Prol. Paseo de la Reforma 115 Int. 702
Col. Lomas de Santa Fe,
C.P. 01219
Del. Alvaro Obregón
México D.F.
Tel: 011-52-(55) 5524-8480

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