



FortiGate® 1500D

Next Generation Firewall Internal Segmentation Firewall Data Center Firewall



FortiGate 1500D

FortiGate 1500D, 1500D-DC and 1500DT

The Fortinet Enterprise Firewall Solution

The Fortinet Enterprise Firewall Solution delivers end-to-end network security with one platform, one network security operating system and unified policy management with a single pane of glass — for the industry's best protection against the most advanced security threats and targeted attacks.

One Enterprise Firewall Solution across the Extended Enterprise

The FortiGate family of network appliances represents the industry's broadest range of enterprise firewall platforms. FortiGate is based on FortiASIC, a purpose-built integrated architecture that provides extremely high throughput and exceptionally low latency, while delivering industry-leading security effectiveness and consolidation which is routinely validated by independent real-world tests. Targeted for large enterprises, the FortiGate 1500D delivers high NGFW and SSL inspection perfromance along with high port density and dual power supply for maximum flexibility.

Highlights

	Firewall	IPS	NGFW	Threat Protection	Interfaces
		E	nterprise Traffic I	Mix	
FG-1500D	80 Gbps	13 Gbps	7 Gbps	5 Gbps	Multiple 10 GE SPF+, GE SFP and GE RJ45
FG-1500DT	80 Gbps	13 Gbps	7 Gbps	5 Gbps	Multiple 10 GE SPF+, 10 GE RJ45, GE SFP and GE RJ45







Validated Security

One Network OS

Performance







Universal Platform Support



FortiGate appliances, interconnected with the Fortinet Security Fabric, form the backbone of the Fortinet Enterprise Solution

forti.net/sf

















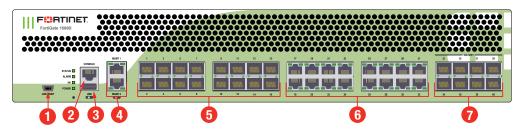






HARDWARE

FortiGate 1500D and 1500D-DC





FortiGate 1500DT





Interfaces

- 1. USB Management Port
- 2. Console Port
- 3. USB Port
- 4. 2x GE RJ45 Management Ports

- 5. 16x GE SFP Slots
- 6. 16x GE RJ45 Ports
- 7. 8x 10 GE SFP+ Slots (1500D, 1500D-DC) 4x 10 GE RJ45 Ports (1500DT)
- 8. 4x 10 GE SFP+ Slots (1500DT)



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

10 GE Connectivity

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

2 www.fortinet.com

SOFTWARE

FortiOS

Control all the security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce operating expenses and save time with a truly consolidated next generation security platform.



- A truly consolidated platform with one OS for all security and networking services for all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100,
 AV Comparatives and ICSA validated security and performance.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings.
- Detect, contain and block advanced attacks automatically in minutes with integrated advanced threat protection framework.
- Solve your networking needs with extensive routing, switching, WiFi, LAN and WAN capabilities.
- Activate all the ASIC-boosted capabilities you need on the fastest firewall platform available.



For more information, please refer to the FortiOS data sheet available at www.fortinet.com

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, other network and security vendors, as well as law enforcement agencies:

- Real-time Updates 24x7x365 Global Operations research security intelligence, distributed via Fortinet Distributed Network to all Fortinet platforms.
- Security Research FortiGuard Labs have discovered over 170 unique zero-day vulnerabilities to date, totaling millions of automated signature updates monthly.
- Validated Security Intelligence Based on FortiGuard intelligence, Fortinet's network security platform is tested and validated by the world's leading third-party testing labs and customers globally.

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:

- Enhanced Support For customers who need support during local business hours only.
- Comprehensive Support For customers who need aroundthe-clock mission critical support, including advanced exchange hardware replacement.
- Advanced Services For global or regional customers who need an assigned Technical Account Manager, enhanced service level agreements, extended software support, priority escalation, on-site visits and more.
- Professional Services For customers with more complex security implementations that require architecture and design services, implementation and deployment services, operational services and more.



Enterprise Bundle

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 the FortiGuard Enterprise Bundle. This bundle contains the full set of FortiGuard security services plus FortiCare service and support offering the most flexibility and broadest range of protection all in one package.

SPECIFICATIONS

	FG-1500D / 1500D-DC FG-1500DT	
Hardware Specifications	14 130051	
Hardware Accelerated 10 GE SFP+ Slots	8 4	
Hardware Accelerated GE SFP Slots	16	
Hardware Accelerated 10 GE RJ45 Ports	- 4	
Hardware Accelerated GE RJ45 Ports	16	
GE RJ45 Management / HA Ports	2	
USB Ports (Client / Server)	1/1	
Console Port	1	
Onboard Storage	480 GB	
Included Transceivers	2x SFP+ (SR 10GE)	
System Performance		
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 Million	
New Sessions/Second (TCP)	300,000	
Firewall Policies	100,000	
IPsec VPN Throughput (512 byte)	50 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels	20,000	
Client-to-Gateway IPsec VPN Tunnels	50,000	
SSL-VPN Throughput	4 Gbps	
Concurrent SSL-VPN Users (Recommended Maximum)	10,000	
IPS Throughput (HTTP / Enterprise Mix) 1	15 / 13 Gbps	
SSL Inspection Throughput ²	10.5 Gbps	
Application Control Throughput ³	12 Gbps	
NGFW Throughput ⁴	7 Gbps	
Threat Protection Throughput ⁵	5 Gbps	
CAPWAP Throughput ⁶	20 Gbps	
Virtual Domains (Default / Maximum)	10 / 250	
Maximum Number of FortiAPs (Total / Tunnel)	4,096 / 1,024	
Maximum Number of FortiTokens	5,000	
Maximum Number of Registered Endpoints	8,000	
High Availability Configurations	Active-Active, Active-Passive, Clustering	

	FG-1500D /1500D-DC	FG-1500DT	
Dimensions			
Height x Width x Length (inches)	3.5 x 17.24 x 21.81		
Height x Width x Length (mm)	90 v 429 v 554		
	32.50 lbs (14.70 kg)	34.39 lbs (15.6 kg)	
Form Factor	Rack Mour		
Power			
AC Power Supply	ower Supply 100–240V AC, 47–63 Hz		
DC Power Supply (FG-1500D-DC)	40.5-57V DC	_	
Maximum Current	110V / 8A, 220V / 4A		
Power Consumption (Average / Maximum)	338 / 406 W	230 / 350 W	
	1,385 BTU/h		
Redundant Power Supplies	Yes, Hot swappable		
Environment			
Operating Temperature 32–104°F (0–40°C)		(0-40°C)	
Storage Temperature	-31_158°F (-35_70°∩)		
Humidity	15-90%	20-90%	
	non-condensing	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, USGv6/		

Note: All performance values are "up to" and vary depending on system configuration. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1. 1. IPS performance is measured using 1 Mbyte HTTP and Enterprise Traffic Mix. 2. SSL Inspection is measured with IPS enabled and HTTP traffic, using TLS v1.2 with AES256-SHA. 3. Application Control performance is measured with IPS and Application Control enabled, based on Enterprise Traffic Mix. 5. Threat Protection performance is measured with IPS and Application Control and Malware protection enabled, based on Enterprise Traffic Mix. 6. CAPWAP performance is based on 1444 byte UDP packets.

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

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ORDER INFORMATION

Product	SKU	Description
FortiGate 1500D	FG-1500D	8x 10 GE SFP+ slots, 16x GE SFP slots, 18x GE RJ45 ports (including 16x ports, 2x management/HA ports), FortiASIC NP6 and CP8 hardware accelerated, 480 GB SSD onboard storage, dual AC power supplies.
FortiGate 1500D-DC	FG-1500D-DC	8x 10 GE SFP+ slots, 16x GE SFP slots, 18x GE RJ45 ports (including 16x ports, 2x management/HA ports), FortiASIC NP6 and CP8 hardware accelerated, 480 GB SSD onboard storage, dual DC power supplies.
FortiGate 1500DT	FG-1500DT	4x 10 GE SFP+ slots, 4x 10 GE RJ45 ports, 16x GE SFP slots, 18x GE RJ45 ports (including 16x ports, 2x management/HA ports), FortiASIC NP6 and CP8 hardware accelerated, 480 GB SSD onboard storage, dual AC power supplies.
Optional Accessories		
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, long range for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ transceiver module, long range	FG-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ active direct attach cable, 10m / 32.8 ft	SP-CABLE-ADASFP+	10 GE SFP+ active direct attach cable, 10m / 32.8 ft for all systems with SFP+ and SFP/SFP+ slots.
Rack mount sliding rails	SP-FG3040B-RAIL	Rack mount sliding rails for FG-1000C/-DC, FG-1500D, FG-3040B/-DC, FG-3140B/-DC, FG-3240C/-DC, 3700D and 3950B/-DC.
AC power supply	SP-FG1240B-PS	AC power supply for FG-1200D, FG-1240B, FG-1500D, FG-1500DT, FG-3040B and FG-3140B.
DC power supply	SP-FG1500D-DC-PS	DC power supply for FG-1500D-DC.



GLOBAL HEADQUARTERS Fortinet Inc. 899 Kifer Road Sunnyvale, CA 94086 United States Tel: +1.408.235.7700 www.fortinet.com/sales

EMEA SALES OFFICE 905 rue Albert Einstein Valbonne 06560 Alpes-Maritimes, France Tel: +33.4.8987.0500

APAC SALES OFFICE 300 Beach Road 20-01 The Concourse Singapore 199555 Tel: +65.6395.2788

LATIN AMERICA SALES OFFICE Sawgrass Lakes Center 13450 W. Sunrise Blvd., Suite 430 Sunrise, FL 33323 United States Tel: +1.954.368.9990

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