



FortiGate® 3200D

High Performance Data Center Firewall with 10 GE Interfaces



FortiGate 3200D

FG-3200D and 3200D-DC

Today's data centers require security appliances that deliver exceptional performance, deployment flexibility and extensive security features, to protect the most demanding network environments. The FortiGate 3200D device is ideally suited for network segmentation and internal network threat protection in data centers with its 48 10 GE interfaces.

10 Times Data Center Firewall Performance

The FortiGate 3200D appliance provides up to 80 Gbps of firewall throughput through the use of innovative FortiASIC processors and the latest generation of multi-core CPUs. Impressive consolidated security performance and support for a variety of configurations ensure that essential security functions keep up with the rest of your network.

Future-proof Security

The system also provides technologies that include robust networking capabilities and extensible security features, all managed from an intuitive management console with deep insight offerings, enabling you to keep pace with your evolving network.

Features & Benefits

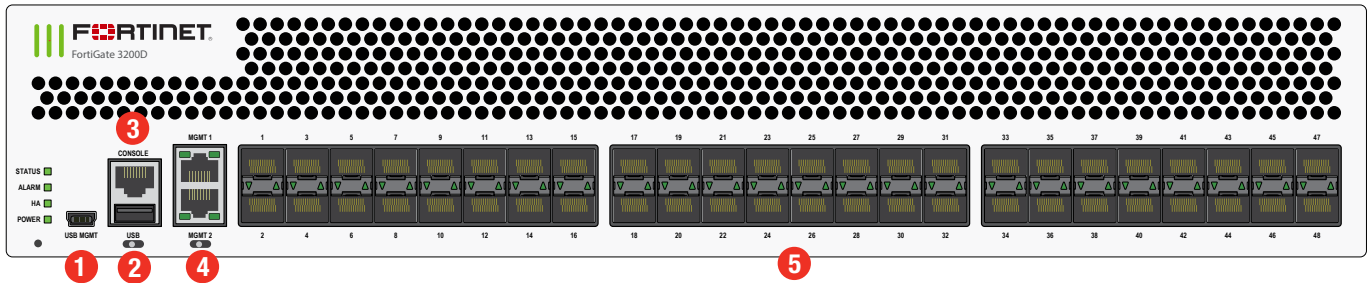
- Industry-leading 10x data center firewall offers exceptional throughput and ultra-low latency
- Highly available and Virtual Domain (VDOM) support for multi-tenant data center environment
- Integrated high-speed 10 GE+ port delivers maximum flexibility and scalability
- Intuitive management interface enables broad and deep visibility and control
- NSS Labs Recommended consolidated security delivers top-rated protection

Highlights

Firewall Performance	IPS Performance	Interfaces
80 Gbps	30 Gbps	Multiple 10 GE SFP+, GE SFP and GE RJ45



HARDWARE



Interfaces

1. USB Management Port
2. USB Port
3. Console Port

4. 2x GE RJ45 Management Ports
5. 48x 10 GE SFP+ / GE 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 2 microseconds
- VPN, CAPWAP and IP tunnel acceleration
- Anomaly-based intrusion prevention, checksum offload and packet defragmentation
- Traffic shaping and priority queuing

Content Processor

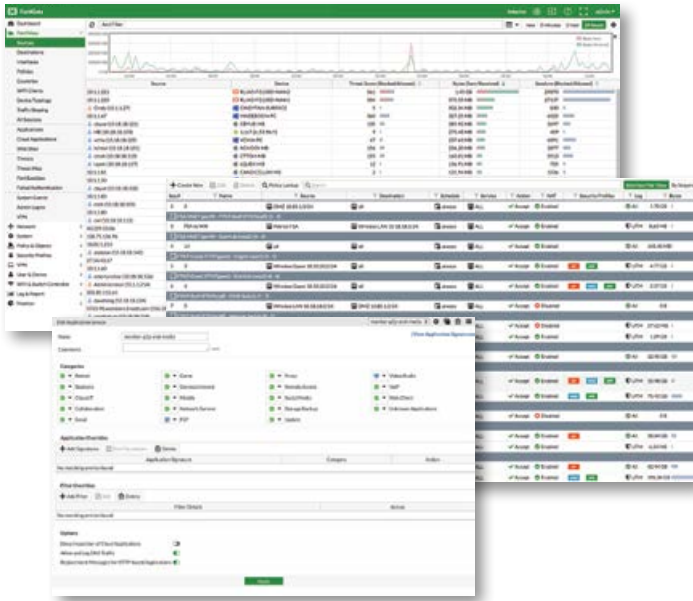
The FortiASIC CP8 content processor works outside of the direct flow of traffic, providing high-speed cryptography and content inspection services including:

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

10 GE Connectivity for Network Segmentation

High speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 3200D provides the highest 10 GE port densities in the market, simplifying network designs without relying on additional devices to bridge desired connectivity.

SOFTWARE



FortiOS Management UI —
FortiView, Policy Table and Application Control Panel

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-booster 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.



For more information, please refer to <http://forti.net/guard>

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 around-the-clock mission critical support, including advanced exchange hardware replacement.
- **Premium 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.



For more information, please refer to <http://forti.net/care>

SPECIFICATIONS

FORTIGATE 3200D	
Interfaces and Modules	
10 GE SFP+ / GE SFP Slots	48
GE RJ45 Management Ports	2
USB Ports (Client / Server)	1 / 1
Console Port	1
Internal Storage	960 GB
Included Transceivers	2x SFP+ (SR 10GE)
System Performance and Capacity	
Firewall Throughput (1518 / 512 / 64 byte, UDP)	80 / 80 / 50 Gbps
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	80 / 80 / 50 Gbps
Firewall Latency (64 byte, UDP)	3 µs
Firewall Throughput (Packet per Second)	75 Mpps
Concurrent Sessions (TCP)	50 Million
New Sessions/Second (TCP)	400,000
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	64,000
SSL-VPN Throughput	8 Gbps
Concurrent SSL-VPN Users (Recommended Maximum)	30,000
IPS Throughput (HTTP / Enterprise Mix)	30 / 20 Gbps
SSL Inspection Throughput	15 Gbps
NGFW Throughput	12 Gbps
CAPWAP Throughput	22 Gbps
Virtual Domains (Default / Maximum)	10 / 500
Maximum Number of FortiAPs (Total / Tunnel Mode)	4,096 / 1,024
Maximum Number of FortiTokens	5,000
Maximum Number of Registered FortiClients	20,000
High Availability Configurations	Active / Active, Active / Passive, Clustering

FORTIGATE 3200D	
Dimensions and Power	
Height x Width x Length (inches)	3.5 x 17.4 x 21.9 in
Height x Width x Length (mm)	88 x 442 x 555 mm
Weight	37.9 lbs (17.2 kg)
Form Factor	2 RU
AC Power Supply	100–240V AC, 50–60 Hz
DC Power Supply (FG-3200D-DC)	40.5–57V DC
Power Consumption (Average / Maximum)	350 W / 598 W
Heat Dissipation	2041 BTU/h
Redundant Power Supplies	Yes, Hot Swappable
Operating Environment and Certifications	
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	-31–158°F (-35–70°C)
Humidity	20–90% 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. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1. NGFW performance is measured with Flow AV (Quick Mode), IPS and Application Control enabled, based on Enterprise Traffic Mix. SSL Inspection is measured with IPS enabled and HTTP traffic, using TLS v1.2 with AES254-SHA. 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.

ORDER INFORMATION

Product	SKU	Description
FortiGate 3200D	FG-3200D	48x 10 GE SFP+ slots, 2x GE RJ45 Management, FortiASIC NP6 and CP8 hardware accelerated, 960 GB SSD onboard storage, and dual AC power supplies.
FortiGate 3200D-DC	FG-3200D-DC	48x 10 GE SFP+ slots, 2x GE RJ45 Management, FortiASIC NP6 and CP8 hardware accelerated, 960 GB SSD onboard storage, and dual DC power supplies.
Optional Accessories		
Rack Mount Sliding Rails	SP-FG3040B-RAIL	Rack mount sliding rails for FG-1000C/-DC, FG-1200D, FG-1500D/DC, FG-3040B/-DC, FG-3140B/-DC, FG-3240C/-DC, FG-3000D/-DC, FG-3100D/-DC, FG-3200D/-DC, FG-3700D/-DC, FG-3700DX, FG-3810D/-DC and FG-3950B/-DC.
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.
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.
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+ 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.
AC Power Supply	SP-FG3600C-PS	AC power supply for FG-3000D, FG-3100D, FG-3200D, FG-3600C and FG-3240C.
DC Power Supply	SP-FG1500D-DC-PS	DC power supply for FG-1500D-DC, FG-3000D-DC, FG-3100D-DC, FG-3200D-DC.



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