

# FortiGate® 300D and 500D

Accelerated security for mid-enterprise and branch office



With cyber threats and high profile data breaches continuing to make headlines, organizations large and small understand the importance of increasing security, especially security of their networks. This means moving forward with projects to upgrade from traditional to next generation firewalls, as well as the addition of antimalware to web filters.

## 5 Times Next Generation Performance

Fortunately, Fortinet's midrange FortiGate appliances deliver 5 times the next generation performance of alternate products to enable midsize organizations to add new, top-rated security technologies yet still consolidate security devices. Specifically, this breakthrough performance allows most organizations to combine stateful firewall with intrusion prevention and application control, plus have room to add web filtering and antimalware all on one device. As a result, you get increased security beyond the traditional stateful firewall and web filter while removing one or more web proxies from your environment. Further, rich dashboards and reporting deliver the visibility and control you expect from a next generation firewall.

## Top Rated Security

Finally, these features of the FortiGate FortiOS Network Security Platform are routinely submitted to independent real-world tests so you can be confident in their effectiveness. You can also see how they stack up against the competition. Fortinet FortiGate NGFW appliances deliver all of this at an affordable price that fits your constrained budgets.

*Designed for today's network security requirements*

- Powered by FortiASICs that deliver industry best price/performance.
- Runs FortiOS 5 — the most powerful security operating system in the world delivers more security to fight advanced threats, more control to secure mobile devices, and more intelligence to build secure policies.
- Backed by Fortinet's global FortiCare technical support and FortiGuard threat research teams for around-the-clock protection and support.

## Key Features & Benefits

Industry Validation

Enjoy confidence in the quality of your next generation firewall.

High Performance Appliances and Integrated Security Architecture

Superior performance, enabling greater device consolidation, easier management and lower cost.

Central Management and Reporting

Robust management systems that allows rapid provision and deployment, monitoring of device and threat status while providing actionable reports.



**FortiCare**

Worldwide 24x7 Support  
support.fortinet.com

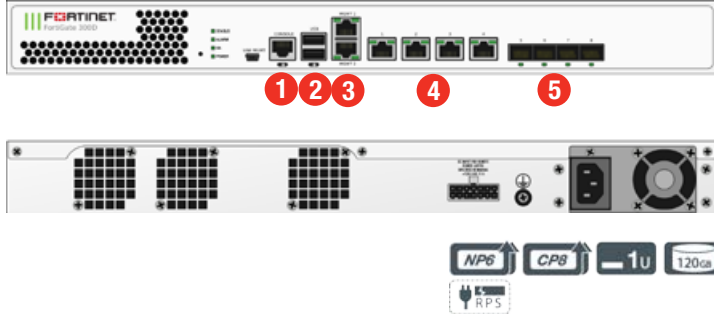


**FortiGuard**

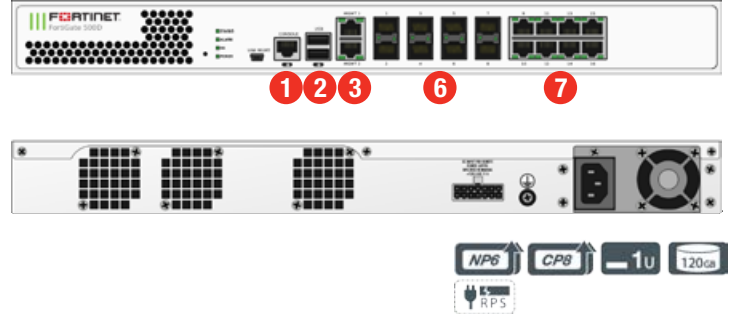
Threat Research & Response  
www.fortiguard.com

# HARDWARE

## FortiGate 300D




## FortiGate 500D



### Interfaces

1. Console Port (RJ45)
2. 2x USB Ports
3. 2x GE RJ45 Management Ports
4. 4x GE RJ45 Ports
5. 4x GE SFP Slots

6. 8x GE SFP Slots
7. 8x GE RJ45 Ports



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 well because they rely on general-purpose CPUs, causing a dangerous performance gap.
- FortiASIC processors provide the performance needed to block emerging threats, met rigorous third-party certifications, and ensure that your network security solution does not become a network bottleneck.

### Content Processor

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

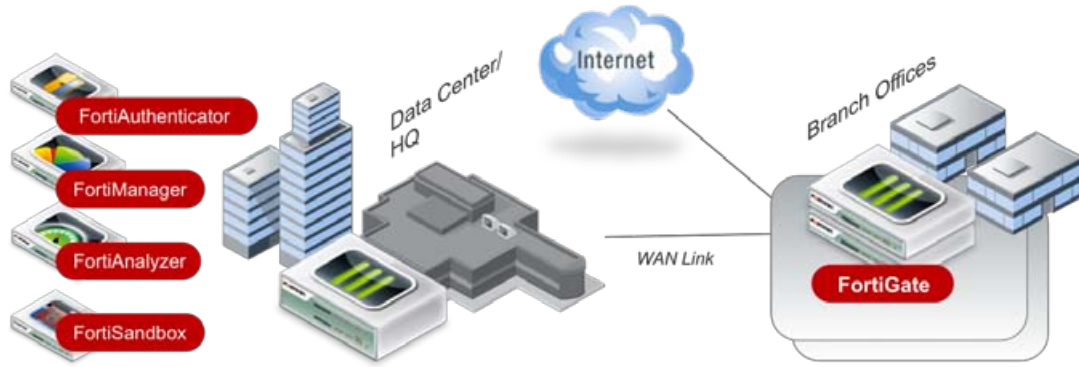
- Signature-based content inspection acceleration
- Encryption and decryption offloading

### 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

# DEPLOYMENT



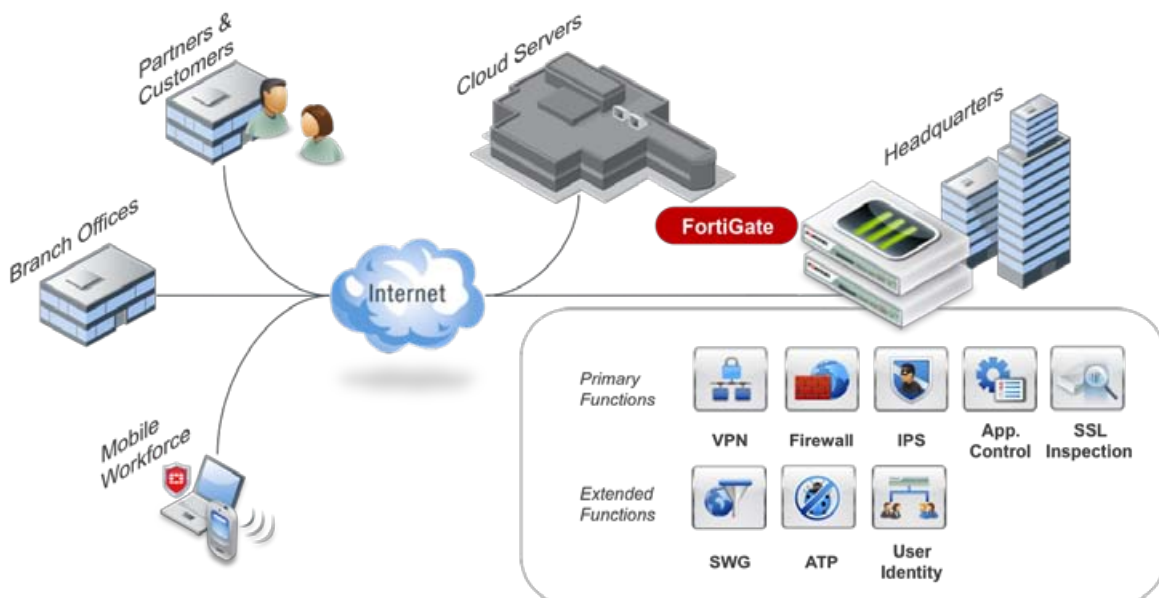
FortiGate deployed as branch office firewall

## Branch Office Firewall

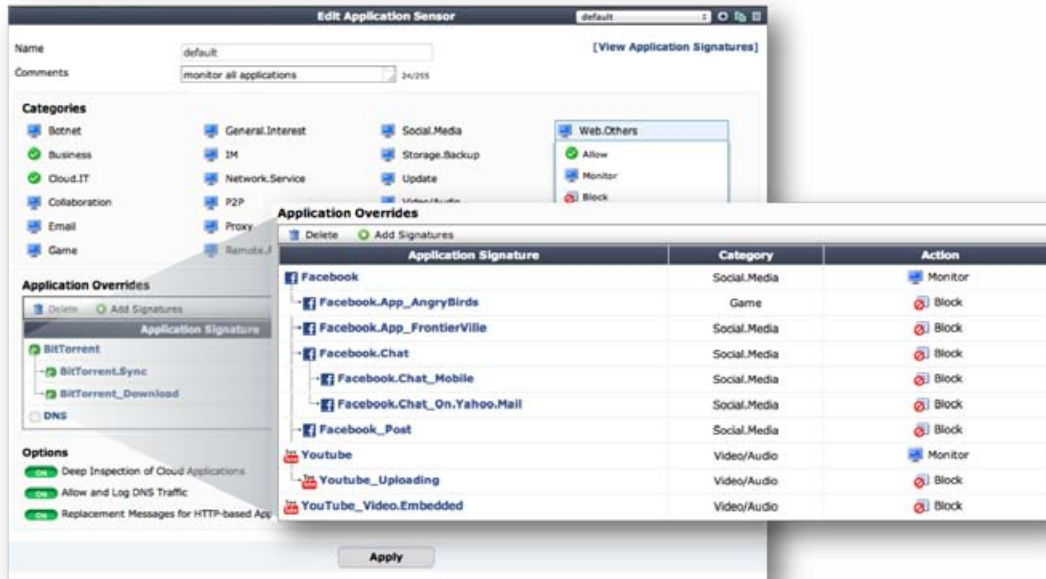
Today's branch office security gateway is no longer just a basic firewall and site-to-site VPN gateway. With the prevalent adoption of cloud-based applications — both public and private, there are more associated requirements for both access availability and security. A security gateway will need robust network and high availability capabilities that include intelligent WAN link forwarding and flexible network deployment options. From the security perspective, a branch office firewall should provide abilities to identify users, locations, devices and applications; thereby control access with finer granularity and visibility. With Fortinet solution for enterprises, branch offices can enjoy significant protection with centralized facilities such as File Analysis using the FortiSandbox and FortiAuthenticator for user access management.

## Mid-Enterprise Edge Firewall

Fortinet's midrange firewalls are perfect for growing mid-enterprises with their agile and high performance network security capabilities. The FortiGate 300D and 500D not only deliver protection exceeding expectations, they are suitable for consolidating other security components. This allows organizations to significantly reduce TCOs and simplifies the network. Unlike other NGFWs (Next Generation Firewalls), the FortiGates are powered by FortiASICs which provide security without compromising performance. They run on the World's most advanced Security operating systems that meet each organization's unique requirements. Advanced features such as integrated endpoint control and token server helps organizations to rapidly deploy enhanced security to their mobile workforce while device-based policies aid to implement BYOD securely.



FortiGate deployed as mid enterprise edge firewall



Powerful application control with granular settings

## Proven with Industry Validation

Third-party industry certifications, as well as real-world effectiveness and performance tests, assure quality and best-of-breed protection.

## Ease of Use

FortiOS lowers operational costs and reduces IT staff workload. Single pane of glass management and centralized analysis ensure consistent policy creation and enforcement while minimizing deployment and configuration challenges.

## In-depth Visibility and Reporting

Through FortiView, a collection of flexible widget-based views with drill-down capabilities, FortiOS allows administrators to quickly visualize and understand recent network activities and threat situations.

Detailed logs offers deep insights to sessions that passed through the FortiGate while comprehensive reports helps organizations to trend network usage accurately.

## Powerful Policy Management

Two types of policy management views — global and section view — are available to suit your preferences. Policy objects can be easily edited, duplicated or moved from the policy table. Robust management features include policy object search, tagging, sorting and filtering.

With FortiManager integration, you have the ability to set up sophisticated policy implementation and provisioning workflows to meet compliance or operational requirements. The FortiManager also offers logging and reporting module that simplified and reduced TCO.

## Identity-Centric Enforcement

FortiOS supports both local and remote authentication services such as LDAP, Radius and TACACS+ to identify users and apply appropriate access policies and security profiles accordingly. It can simplify identity-based implementations and provide a seamless user authorization experience with single sign-on capabilities. FortiOS has strong PKI and certificate-based authentication services while also integrating an internal two-factor authentication server for additional security.

To tackle security for today's prevalent use of personal devices, FortiOS offers state-of-the-art device identification capabilities that empower organizations to set up more intelligent security policies.

## Granular Application Control

Advanced application control with ability to control discrete functions lets you define and enforce policies for thousands of applications running across networks regardless of port or the protocol used for communication.

## Highly Effective IPS

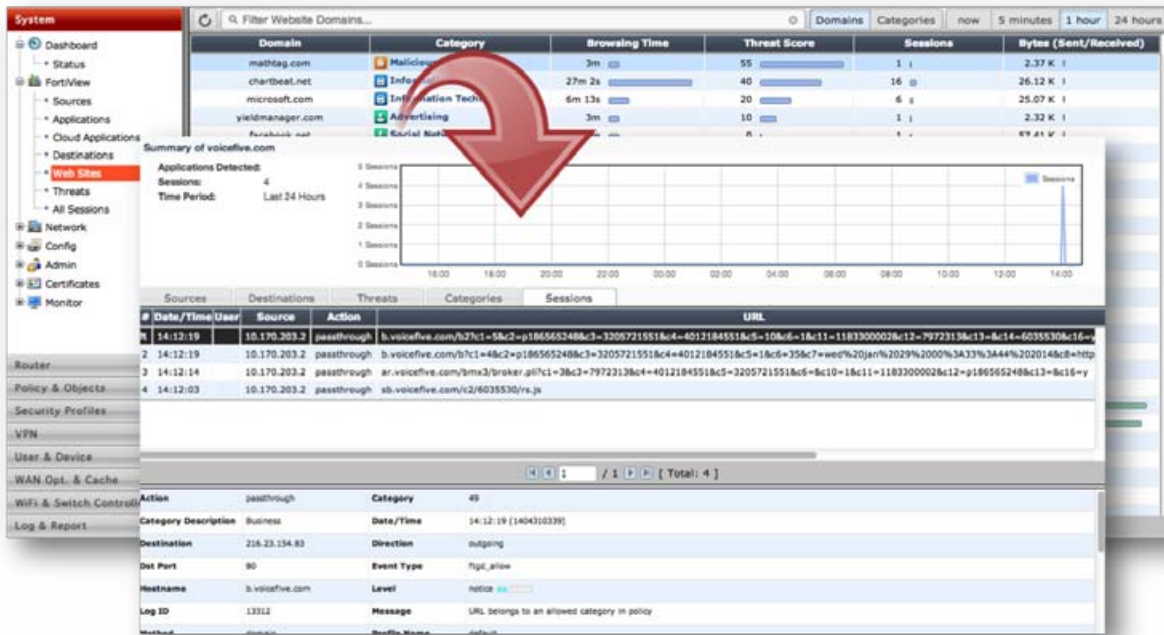
Over 8,000 IPS signatures enable you to stop attacks that have evaded most conventional firewalls. Additionally, FortiOS also offers behavior-based heuristics settings that recognize zero day threats for which no signature has been created.

# FEATURES

## Beyond Next Generation Firewall Capabilities

Our Secure Web Gateway capabilities allow you to prevent end users from unknowingly visiting malicious sites, shield them from inappropriate material out on the Internet, and maintain a safe and productive work environment. Real-time dashboards provide administrators visibility into end user activity while rich reporting keeps executives up to date. An advanced policy engine gives you the tools you need — such as time-based quotas, user overrides and more — to implement balanced policies.

Recognizing that despite all of the latest security controls, targeted threats may still slip through, organizations have the opportunity to add an additional layer of inspection, focused on advanced threat detection in complement to established threat prevention. Often referred to as “sandboxing” or breach detection, Fortinet offers on-premise and cloud-based options to extend your next generation firewall.



FortiView — real-time query widget with drill-down panels

## FortiGuard Security Services and FortiCare Support

### • Cutting Edge Security Expertise

Our team of over 200 security researchers, vast data collection and state-of-the-art analysis systems across the globe examining the latest cyber-criminal activities and techniques to deliver real-time protection for your organization. With high marks attained by third-party evaluations, customers are assured of quality and credible security updates against the evolving sophisticated or targeted threats.

### • World-Class Support

It is critical to keep your network running properly and be able to resolve issues quickly. Our large team of knowledgeable and responsive technical support engineers, together with comprehensive self-help resources are always ready to assist you in time of critical needs. In addition, Fortinet also offers a variety of support offerings that cater to your organization and project requirements.

# SPECIFICATIONS

	FORTIGATE 300D	FORTIGATE 500D
<b>Interfaces &amp; Modules</b>		
GE RJ45 Interfaces	6	10
GE SFP Slots	4	8
USB (Client / Server)	1/2	1/2
RJ-45 Console Port	1	1
Local Storage	120 GB SSD	120 GB SSD
Included Transceivers	2x SFP (SX 1 GE)	2x SFP (SX 1 GE)
<b>System Performance &amp; Capacity</b>		
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	8 / 8 / 8 Gbps	16 / 16 / 16 Gbps
Firewall Latency (64 byte, UDP)	3 µs	3 µs
Firewall Throughput (Packet per Second)	12 Mpps	24 Mpps
Concurrent Sessions (TCP)	6 Mil	6 Mil
New Sessions/Sec (TCP)	200,000	280,000
Firewall Policies	10,000	10,000
IPsec VPN Throughput (512 byte)	7 Gbps	14 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	2,000	2,000
Client-to-Gateway IPsec VPN Tunnels	10,000	10,000
SSL-VPN Throughput	350 Mbps	400 Mbps
Concurrent SSL-VPN Users (Recommended Maximum)	500	500
IPS Throughput	2.8 Gbps	4.7 Gbps
Antivirus Throughput (Proxy Based / Flow Based)	1.4 / 2.5 Gbps	1.7 / 3.4 Gbps
CAPWAP Clear-text Throughput (HTTP)	4.00 Gbps	4.85 Gbps
Virtual Domains (Default / Maximum)	10 / 10	10 / 10
Maximum Number of FortiAPs (Total / Tunnel)	512 / 256	512 / 256
Maximum Number of FortiTokens	1,000	1,000
Maximum Number of Registered Endpoints	600	2,000
High Availability Configurations	Active-Active, Active-Passive, Clustering	

	FORTIGATE 300D	FORTIGATE 500D
<b>Dimensions &amp; Power</b>		
Height x Width x Length (inches)	1.73 x 17 x 12.68	1.73 x 17 x 12.68
Height x Width x Length (mm)	44 x 432 x 322	44 x 432 x 322
Weight	10.5 lbs (4.8 kg)	10.8 lbs (4.9 kg)
Form Factor	1 RU	1 RU
Power Consumption (Average/Maximum)	106 W / 194 W	113 W / 202 W
Current (Maximum)	110V/4A, 220V/2A	110V/4A, 220V/2A
Heat Dissipation	660 BTU/h	690 BTU/h
<b>Operating Environment &amp; Certifications</b>		
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. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1.

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

# ORDER INFORMATION

Product	SKU	Description
FortiGate 300D	FG-300D	6x GE RJ45 ports (including 4x FortiASIC-accelerated ports, 2x management ports), 4x GE SFP slots, 120 GB onboard storage.
FortiGate 500D	FG-500D	10x GE RJ45 ports, (including 8x FortiASIC-accelerated ports, 2x management ports), 8x GE SFP slots, 120 GB onboard storage.
<b>Optional Accessories</b>		
Redundant AC Power Supply	FRPS-100	External redundant AC power supply for up to 4 units: FG-200B, FG-300C, FG-310B, FG-200D/240D and FG-300D. Up to 2 units: FG-500D, FDD-400B 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.



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