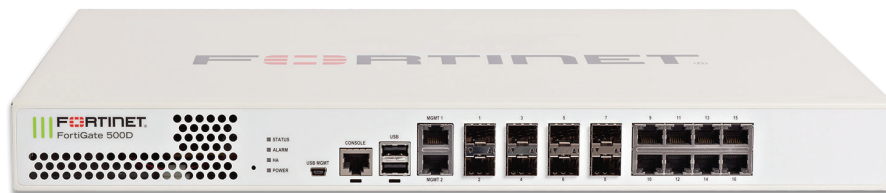


FortiGate® 500D

Next Generation Firewall
Enterprise Branch
Secure SD-WAN



The FortiGate 500D delivers next generation firewall capabilities for mid-sized to large enterprises, with the flexibility to be deployed at the campus or enterprise branch. Protects against cyber threats with security processor powered high performance, security efficacy and deep visibility.

Security

- Protects against known exploits, malware and malicious websites using continuous threat intelligence provided by FortiGuard Labs security services
- Identify thousands of applications including cloud applications for deep inspection into network traffic
- Detects unknown attacks using dynamic analysis and provides automated mitigation to stop targeted attacks

Performance

- Delivers industry's best threat protection performance and ultra-low latency using purpose-built security processor (SPU) technology
- Provides industry-leading performance and protection for SSL encrypted traffic

Certification

- Independently tested and validated best security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs, ICASA, Virus Bulletin and AV Comparatives

Networking

- Delivers an extensive routing, switching, wireless controller and high performance IPsec VPN capabilities to consolidate networking and security functionality
- Enables flexible deployment such as Next Generation Firewall and Secure SD-WAN

Management

- Single Pane of Glass with Network Operations Center (NOC) view provides 360° visibility to identify issues quickly and intuitively
- Predefined compliance checklist analyzes the deployment and highlights best practices to improve overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners' products to collaboratively integrate and provide end-to-end security across the entire attack surface
- Automatically builds Network Topology visualizations which discover IoT devices and provide complete visibility into Fortinet and Fabric-ready partner products



Firewall	IPS	NGFW	Threat Protection	Interfaces
16 Gbps	3.5 Gbps	2.5 Gbps	2 Gbps	Multiple GE RJ45 and GE SFP Slots

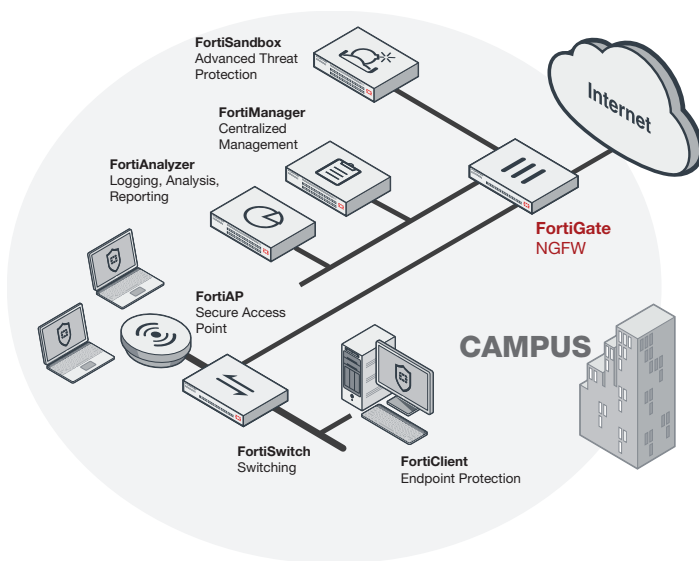
Refer to specification table for details

DEPLOYMENT



Next Generation Firewall (NGFW)

- Combines threat prevention security capabilities into single high performance network security appliance
- Reduces complexity by creating campus topology view and providing granular visibility of devices, users and threat information
- Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual content of your network traffic
- Delivers industry's highest SSL inspection performance using industry-mandated ciphers
- Proactively detect malicious unknown threats using integrated cloud-based sandbox service

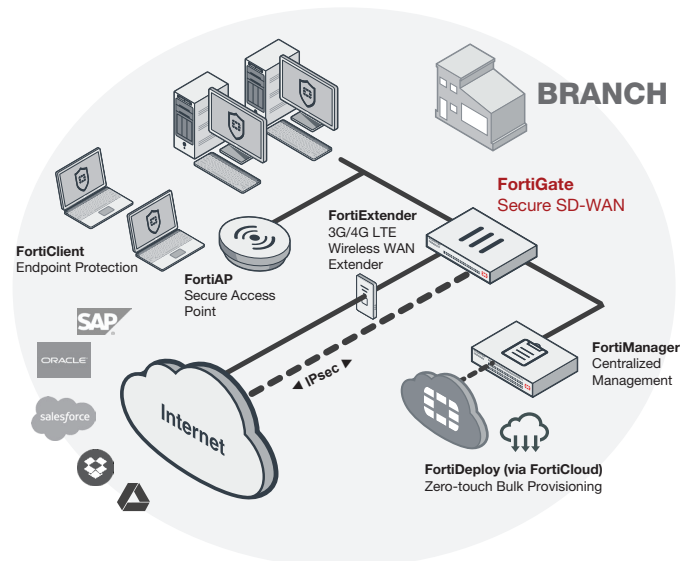


FortiGate 500D deployment in campus
(NGFW)



Secure SD-WAN

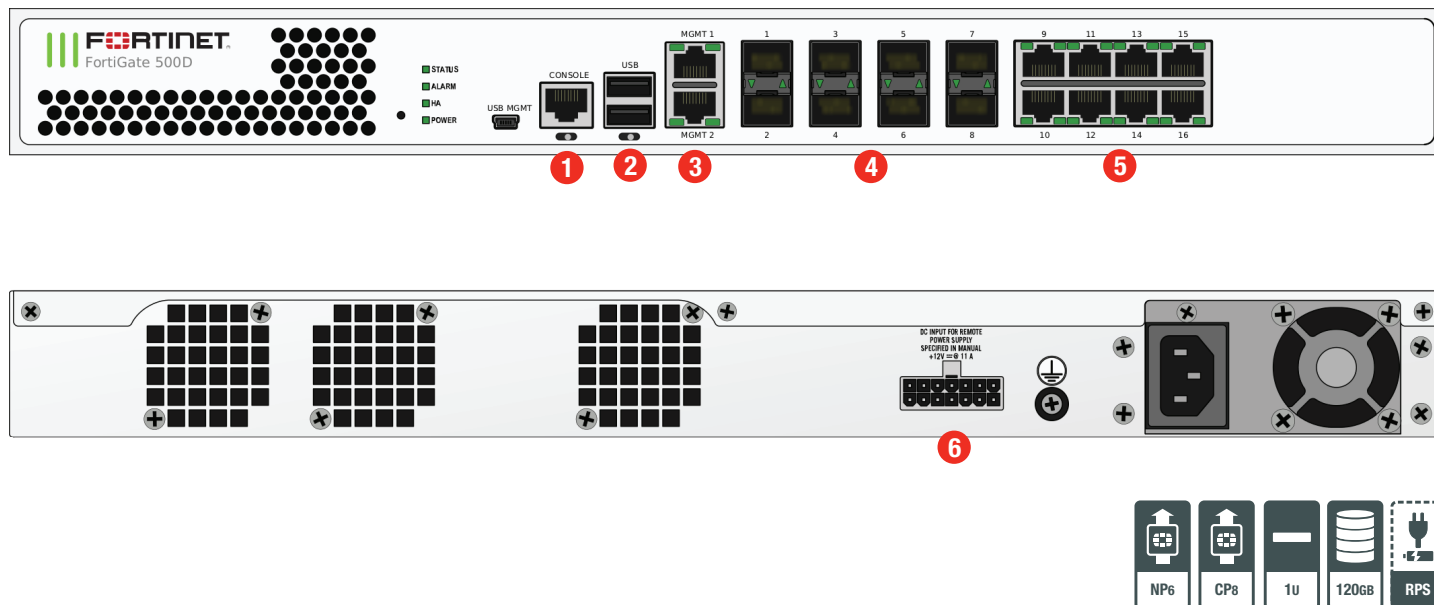
- Secure direct Internet access for Cloud applications for improved latency and reduce WAN cost spending
- Effective, cost-efficient and high performance threat prevention capabilities
- WAN Path Controller and Link Health Monitoring for better application performance
- Security Processor powered industry's best IPsec VPN and SSL Inspection performance
- Centralized Management and Zero-Touch deployment



FortiGate 500D deployment in branch office
(Secure SD-WAN)

HARDWARE

FortiGate 500D



Interfaces

- | | |
|--------------------------------|---------------------|
| 1. Console Port (RJ45) | 4. 8x GE SFP Slots |
| 2. 2x USB Ports | 5. 8x GE RJ45 Ports |
| 3. 2x GE RJ45 Management Ports | 6. FRPS Connector |

Powered by SPU

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

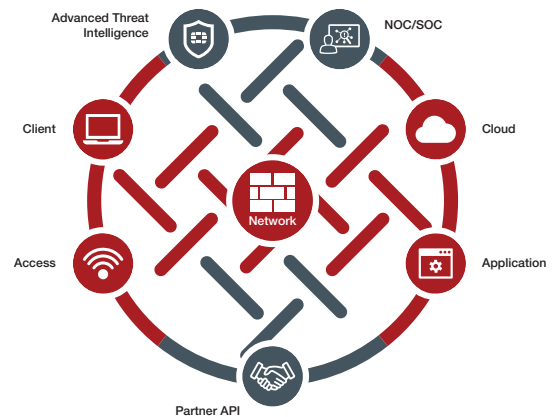
- Signature-based content inspection acceleration
- Encryption and decryption offloading

FORTINET SECURITY FABRIC

Security Fabric

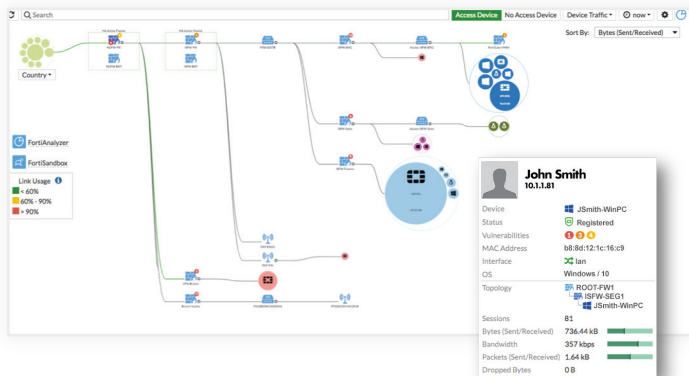
The Security Fabric allows security to dynamically expand and adapt as more and more workloads and data are added. Security seamlessly follows and protects data, users, and applications as they move between IoT, devices, and cloud environments throughout the network.

FortiGates are the foundation of Security Fabric, expanding security via visibility and control by tightly integrating with other Fortinet security products and Fabric-Ready Partner solutions.



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 ICSCA validated security and performance.
- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings.
- Prevent, detect, and mitigate advanced attacks automatically in minutes with integrated advanced threat protection.
- Fulfill your networking needs with extensive routing, switching, and SD-WAN capabilities.
- Utilize SPU hardware acceleration to boost security capability performance.



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



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.



For more information, please refer to forti.net/fortiguard and forti.net/forticare

SPECIFICATIONS

FORTIGATE 500D	
Interfaces and Modules	
GE RJ45 Interfaces	8
GE SFP Slots	8
GE RJ45 Management Ports	2
USB (Client / Server)	1 / 2
RJ45 Console Port	1
Local Storage	120 GB SSD
Included Transceivers	2x SFP (SX 1 GE)
System Performance and Capacity	
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	16 / 16 / 16 Gbps
IPv6 Firewall Throughput (1518 / 512 / 64 byte, UDP)	16 / 16 / 16 Gbps
Firewall Latency (64 byte, UDP)	3 µs
Firewall Throughput (Packet per Second)	24 Mpps
Concurrent Sessions (TCP)	6 Million
New Sessions/Second (TCP)	250,000
Firewall Policies	10,000
IPsec VPN Throughput (512 byte) ¹	14 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	2,000
Client-to-Gateway IPsec VPN Tunnels	50,000
SSL-VPN Throughput	400 Mbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	500
SSL Inspection Throughput (IPS, HTTP) ³	3 Gbps
Application Control Throughput (HTTP 64K) ²	7.5 Gbps
CAPWAP Throughput (1444 byte, UDP)	10 Gbps
Virtual Domains (Default / Maximum)	10 / 10
Maximum Number of Switches Supported	48
Maximum Number of FortiAPs (Total / Tunnel)	512 / 256
Maximum Number of FortiTokens	1,000
Maximum Number of Registered Endpoints	2,000
High Availability Configurations	Active-Active, Active-Passive, Clustering
System Performance — Optimal Traffic Mix	
IPS Throughput ²	5.7 Gbps
System Performance — Enterprise Traffic Mix	
IPS Throughput ²	3.5 Gbps
NGFW Throughput ^{2,4}	2.5 Gbps
Threat Protection Throughput ^{2,5}	2 Gbps

FORTIGATE 500D	
Dimensions and Power	
Height x Width x Length (inches)	1.73 x 17 x 12.68
Height x Width x Length (mm)	44 x 432 x 322
Weight	10.8 lbs (4.9 kg)
Form Factor	1 RU
Power Consumption (Average / Maximum)	113 W / 202 W
Power Source	100–240V AC, 60–50Hz
Current (Maximum)	110V/4A, 220V/2A
Heat Dissipation	690 BTU/h
Operating Environment and Certifications	
Operating Temperature	32–104°F (0–40°C)
Storage Temperature	31–158°F (-35–70°C)
Humidity	10–90% non-condensing
Noise Level	45 dBA
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; USGv6/IPv6

Note: All performance values are "up to" and vary depending on system configuration.

1. IPsec VPN performance test uses AES256-SHA256.

2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.

3. SSL Inspection performance test uses TLS v1.2 with AES128-SHA256.

4. NGFW performance is measured with Firewall, IPS and Application Control enabled.

5. Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

ORDER INFORMATION

Product	SKU	Description
FortiGate 500D	FG-500D	10x GE RJ45 ports, 8x GE SFP slots, SPU NP6 and CP8 hardware accelerated, 120 GB onboard SSD storage.
Optional Accessories		
External Redundant AC Power Supply	FRPS-100	External redundant AC power supply for up to 4 units: FG-300C, FG-310B, FS-348B and FS-448B. Up to 2 units: FG-200B, FG-200D, FG-240D and FG-300D, FG-400D, FG-500D, FG-600D, FHV-500D, FDD-200B, FDD-400B, FDD-600B 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.



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.



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