FortiGate® 900D

High Performance Enterprise
Firewall for Large Branch Offices

FortiGate 900D

With network bandwidth requirements doubling every 18 months and increases in sophisticated cyber threats, enterprise organizations with large branch offices know they need high-speed network security that also delivers highly effective next generation security.

5 Times Next Generation Firewall Performance

The FortiGate 900D appliance delivers superior performance through a combination of purpose-built FortiASIC™ processors, high port density with 10 GE ports and consolidated security features from the FortiOS™ operating system. It delivers 5 times better next generation firewall performance compared to alternate products and provides the best price/performance in the industry.

Deeper Visibility and Top-rated Security

This breakthrough threat prevention performance allows organizations to run NSS Labs Recommended intrusion prevention and application control and VB100 certified antimalware capabilities for deeper inspection. Rich console views and reports together with a flexible policy engine provide the visibility and control to empower employees yet secure your enterprise.

Finally, these features of the FortiGate FortiOS Network Security Platform are routinely validated by independent real-world tests and are consistently getting superior ratings in security effectiveness.

Highlights

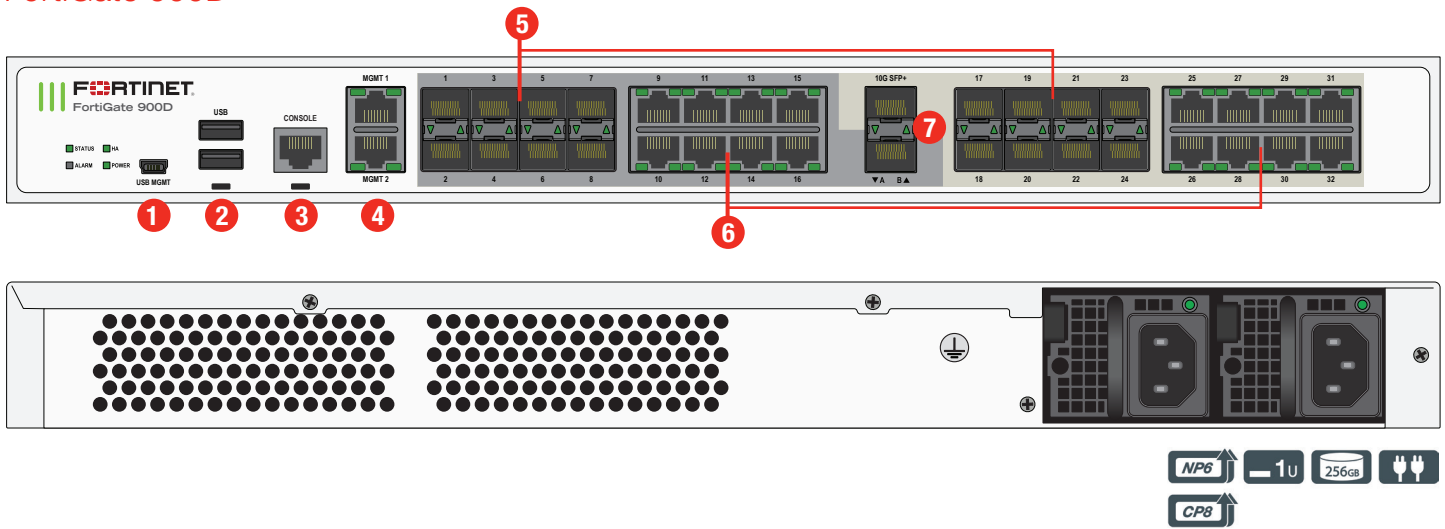| Firewall Performance	IPS Performance	Interfaces
52 Gbps	8 Gbps	Multiple 10 GE SFP+, GE SFP and GE RJ45

Features & Benefits

- 5 times faster hardware accelerated next generation firewall offers best-in-class price/performance ratio

- Integrated high port density delivers maximum flexibility and scalability

- NSS Labs Recommended NGFW and NGIPS with consolidated security delivers top-rated protection

- Application control plus identity and device-based policy enforcement provides more granular protection

- Intuitive management interface enables broad and deep visibility that scales from a single FortiGate to thousands
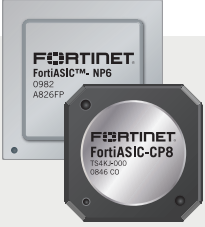
ICSA labs CERTIFIED ANTI-VIRUS ICSA labs CERTIFIED FIREWALL - CORPORATE ICSA labs CERTIFIED IPSEC - BASIC

ICSA labs CERTIFIED SSL VPN ICSA labs CERTIFIED NETWORK IPS

FortiCare Worldwide 24x7 Support
support.fortinet.com

FortiGuard Security Services
www.fortiguard.com

HARDWARE

FortiGate 900D

Interfaces

1. USB Management Port	5. 16x GE SFP Slots
2. USB Ports	6. 16x GE RJ45 Ports
3. Console Port	7. 2x 10 GE SFP+ Slots
4. 2x GE RJ45 Management 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 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. The FortiGate 900D provides 10 GE slots that simplify network designs without relying on additional devices to bridge desired connectivity.

SOFTWARE
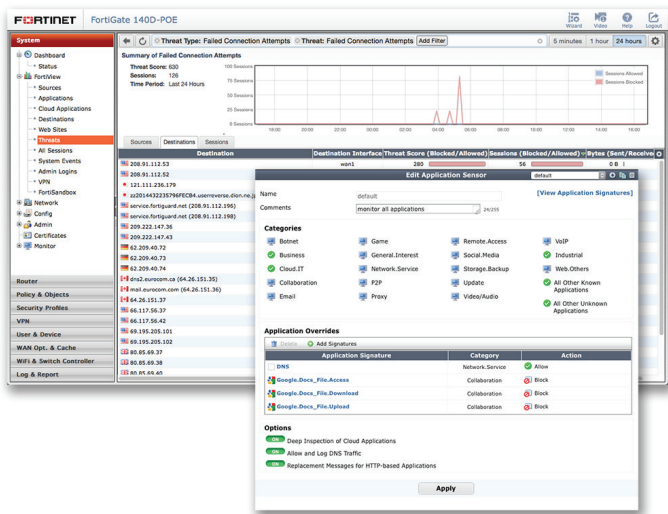
FortiOS Managment UI — FortiView and Application Control Panel

FortiOS

FortiOS helps you protect your organization against advanced threats, configure and deploy your network security faster and see deep into what's happening inside your network. It enables organization to set up policies specific to types of devices, users and applications with industry-leading security capabilities. FortiOS leverages custom FortiASICs and the Optimum Path Processing architecture of FortiGate to deliver 5 times faster throughput performance. In essence, FortiOS delivers:

- **Comprehensive Security** — Control thousands of applications and stop more threats with NSS Labs Recommended IPS, sandboxing, VB100 certified antimalware and more.

- **Superior Control and Visibility** — Stay in control with rich visibility over network traffic, granular policy control, and intuitive, scalable security and network management.

- **Robust Networking Capabilities** — Optimize your network with extensive switching and routing, high availability, WAN optimization, embedded WiFi controller, and a range of virtual options.

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 900D
Interfaces and Modules	
Hardware Accelerated 10 GE SFP+ Slots	2
Hardware Accelerated GE SFP Slots	16
Hardware Accelerated GE RJ45 Ports	16
GE RJ45 Management / HA Ports	2
USB Ports (Client / Server)	1 / 2
Console Port	1
Onboard Storage	256 GB
Included Transceivers	0
System Performance and Capacity	
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)	52 / 52 / 33 Gbps
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	52 / 52 / 33 Gbps
Firewall Latency (64 byte, UDP)	3 µs
Firewall Throughput (Packet per Second)	49.5 Mpps
Concurrent Sessions (TCP)	11 Million
New Sessions/Second (TCP)	280,000
Firewall Policies	100,000
IPsec VPN Throughput (512 byte)	25 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	2,000
Client-to-Gateway IPsec VPN Tunnels	10,000
SSL-VPN Throughput	3.6 Gbps
Concurrent SSL-VPN Users (Recommended Maximum)	10,000
IPS Throughput	8 Gbps
Antivirus Throughput	3.5 Gbps
CAPWAP Clear-text Throughput (HTTP)	8 Gbps
Virtual Domains (Default / Maximum)	10 / 10
Maximum Number of FortiAPs (Total / Tunnel)	1024 / 512
Maximum Number of FortiTokens	1,000
Maximum Number of Registered Endpoints	2,000
High Availability Configurations	Active-Active, Active-Passive, Clustering

	FORTIGATE 900D
Dimensions and Power	
Height x Width x Length (inches)	1.74 x 17.22 x 18.24
Height x Width x Length (mm)	44.2 x 437.5 x 463.2
Weight	20.24 lbs (9.18 kg)
Form Factor	1 RU
AC Power Supply	100–240V AC, 60–50 Hz, 300 W Redundant
Power Consumption (Average / Maximum)	135 W / 187.2 W
Current (Maximum)	100V/5A, 240V/3A
Heat Dissipation	638.75 BTU/h
Redundant Power Supplies	Yes
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. 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. LAG support is limited to certain port configurations, please refer to technical documentation. Antivirus Throughput is measured in proxy mode.

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

ORDER INFORMATION

Product	SKU	Description
FortiGate 900D	FG-900D	2x 10 GE SFP+ slots, 16x GE SFP slots, 16x GE RJ45 ports, 2x GE RJ45 Management ports, FortiASIC NP6 and CP8 hardware accelerated, 1x 256 GB SSD onboard storage, dual AC power supplies

Optional Accessories/Spares	SKU	Description
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
AC Power Supply	SP-FXX1000D	AC power supply for FG-900D, FG-1000D and FXX-1000D

F⊟RTINET®

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