

FortiGate® 100D Series

FortiGate 100D, 140D and 140D-POE

Next Generation Firewall
Enterprise Branch
Secure SD-WAN



The FortiGate 100D series delivers next generation firewall capabilities for mid-sized to large enterprises, with the flexibility to be deployed at the campus or enterprise branch. Protect 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
2.5 Gbps	400 Mbps	250 Mbps	200 Mbps	Multiple GE RJ45, GE SFP Slots PoE Variants

Refer to specification table for details

DEPLOYMENT



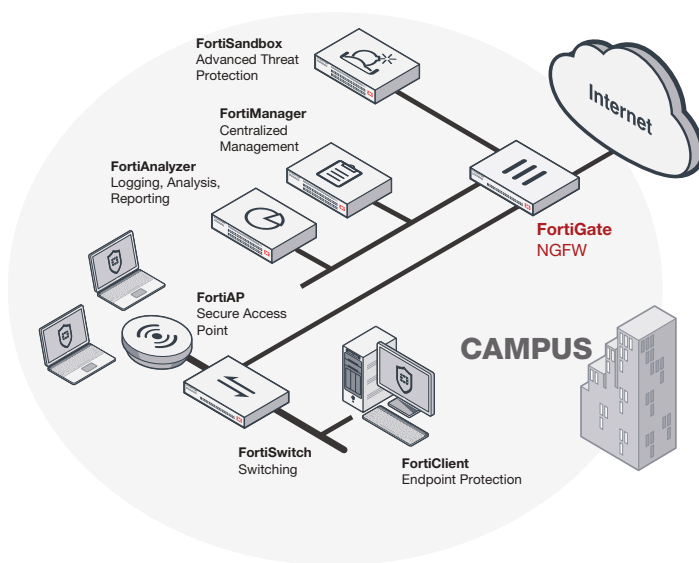
Next Generation Firewall (NGFW)

- 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

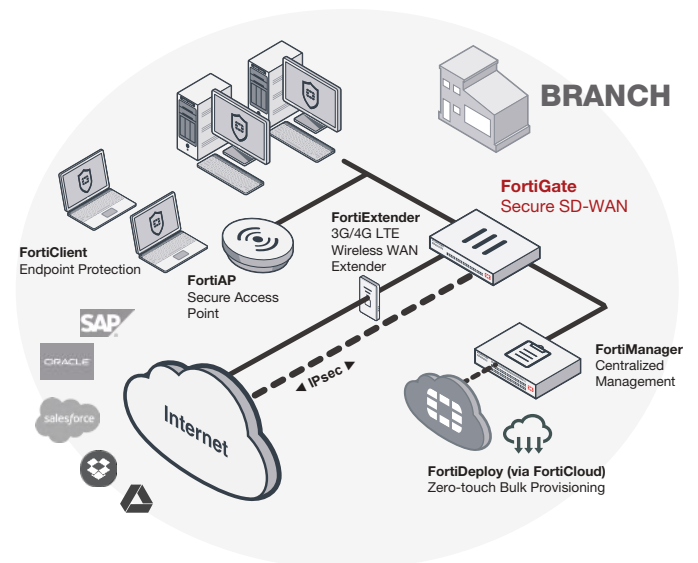


Secure SD-WAN

- 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



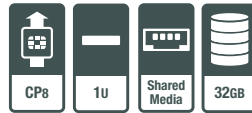
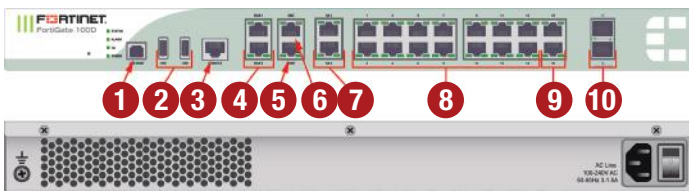
FortiGate 100D deployment in campus (NGFW)



FortiGate 100D deployment in branch office (Secure SD-WAN)

HARDWARE

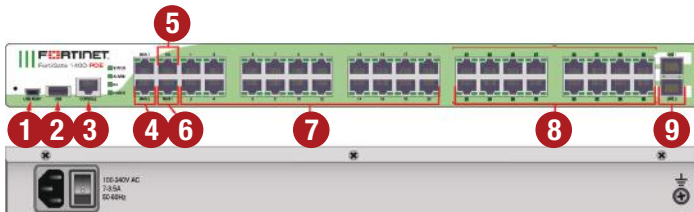
FortiGate 100D



Interfaces

- | | |
|-------------------------------|-----------------------------|
| 1. USB Management Port | 6. 1x GE RJ45 DMZ Port |
| 2. 2x USB Ports | 7. 2x GE RJ45 HA Ports |
| 3. Console Port | 8. 14x GE RJ45 Switch Ports |
| 4. 2x GE RJ45 WAN Ports | 9. 2x GE RJ45 Shared Ports |
| 5. 1x GE RJ45 Management Port | 10. 2x GE SFP Shared Ports |

FortiGate 140D-POE



Interfaces

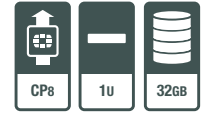
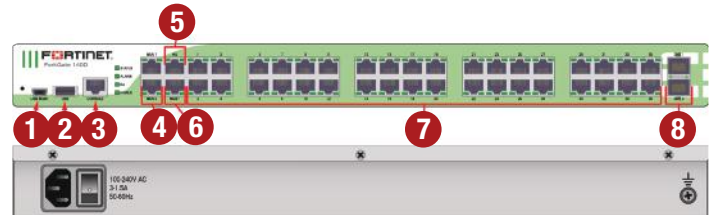
- | | |
|-------------------------|-------------------------------|
| 1. USB Management Port | 6. 1x GE RJ45 Management Port |
| 2. USB Port | 7. 20x GE RJ45 Switch Ports |
| 3. Console Port | 8. 16x GE RJ45 PoE Ports |
| 4. 2x GE RJ45 WAN Ports | 9. 2x GE SFP DMZ Ports |
| 5. 1x GE RJ45 HA Port | |

Powered by SPU CP8

- Providing high-speed cryptography for encryption and decryption
- Accelerates signature-based content inspection services such as AV and IPS



FortiGate 140D



Interfaces

- | | |
|-------------------------|-------------------------------|
| 1. USB Management Port | 5. 1x GE RJ45 HA Port |
| 2. USB Port | 6. 1x GE RJ45 Management Port |
| 3. Console Port | 7. 36x GE RJ45 Switch Ports |
| 4. 2x GE RJ45 WAN Ports | 8. 2x GE SFP DMZ Ports |

Install in Minutes with FortiExplorer

The FortiExplorer™ wizard enables you to easily and quickly set up and configure FortiGate platforms with easy-to-follow instructions. The application runs on Windows, Mac OS X desktops and laptops as well as popular mobile devices. Simply connect to the appropriate USB port on the appliance, and be fully protected in minutes.

Power up with PoE Interfaces

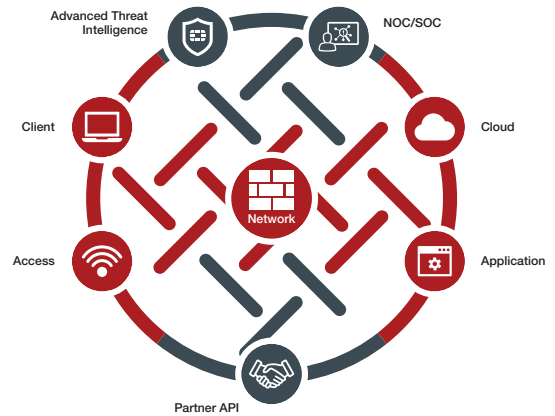
The FortiGate 140D-POE include PoE interfaces that allow you to plug in compatible wireless access points and IP phones out of the box, providing ease of deployment and lower TCO.

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 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.
- 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 100D	FORTIGATE 140D	FORTIGATE 140D-POE
Hardware Specifications			
GE RJ45 Ports	20	40	24
GE RJ45 PoE Ports	–	–	16
GE SFP or RJ45 Shared Ports	2	–	–
GE SFP Ports	–	2	2
USB Ports (Client / Server)	1 / 2	1 / 1	1 / 1
T1 Port	–	–	–
Console Port	1	1	1
Internal Storage	32 GB	32 GB	32 GB
Included Transceivers	NA	0	0
System Performance			
Firewall Throughput		2.5 Gbps	
Firewall Latency (64 byte UDP packets)	37 µs	46 µs	46 µs
Firewall Throughput (Packets Per Second)		300 Kpps	
Concurrent Sessions (TCP)		2 Million	
New Sessions/Second (TCP)		22,000	
Firewall Policies		10,000	
IPsec VPN Throughput (512 byte) ¹		380 Mbps	
Gateway-to-Gateway IPsec VPN Tunnels		2,000	
Client-to-Gateway IPsec VPN Tunnels		10,000	
SSL-VPN Throughput		300 Mbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)		300	
SSL Inspection Throughput (IPS, HTTP) ³		190 Mbps	
Application Control Throughput (HTTP 64K) ²		500 Mbps	
CAPWAP Throughput (1444 byte, UDP)		1.2 Gbps	
Virtual Domains (Default / Maximum)		10 / 10	
Maximum Number of Switches Supported		24	
Maximum Number of FortiAPs (Total / Tunnel Mode)		64 / 32	
Maximum Number of FortiTokens		1,000	
Maximum Number of Registered FortiClients		600	
High Availability Configurations		Active / Active, Active / Passive, Clustering	
System Performance — Optimal Traffic Mix			
IPS Throughput ²		950 Mbps	
System Performance — Enterprise Traffic Mix			
IPS Throughput ²		400 Mbps	
NGFW Throughput ^{2,4}		250 Mbps	
Threat Protection Throughput ^{2,5}		200 Mbps	
Dimensions			
Height x Width x Length (inches)	1.75 x 17.01 x 11.73	1.75 x 17.01 x 12.28	1.75 x 17.01 x 12.28
Height x Width x Length (mm)	44 x 432 x 298	44 x 432 x 312	44 x 432 x 312
Form Factor	Rack Mount, 1 RU	Rack Mount, 1 RU	Rack Mount, 1 RU
Weight	9.5 lbs (4.3 kg)	11.5 lbs (5.2 kg)	11.5 lbs (5.2 kg)

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.

SPECIFICATIONS

	FORTIGATE 100D	FORTIGATE 140D	FORTIGATE 140D-POE
Operating Environment and Certifications			
Power Required		100–240V AC, 50–60 Hz	
Maximum Current	110 V / 3 A, 220 V / 1.5 A	110 V / 2 A, 220 V / 1 A	110 V / 4 A, 220 V / 2 A
Total Available PoE Power Budget*	–	–	270 W
Power Consumption (Average / Maximum)	52.6 W / 63.1 W	44.8 W / 58.7 W	193.4 W / 337.1 W
Heat Dissipation	215.3 BTU/h	200.3 BTU/h	1150.2 BTU/h
Operating / Storage Temperature		32–104°F (0–40°C) / -31–158°F (-35–70°C)	
Operating Altitude		Up to 7,400 ft (2,250 m)	
Humidity		10–90% non-condensing	
Noise Level		46 dBA	
Compliance		FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB	
Certifications		ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; USGv6/IPv6	

* Maximum loading on each PoE port is 15.4 W (802.3af)

ORDER INFORMATION

Product	SKU	Description
FortiGate 100D	FG-100D	20x GE RJ45 ports (including 1x DMZ port, 1x Mgmt port, 2x HA ports, 16x internal switch ports), 2x shared media pairs (including 2x GE RJ45, 2x GE SFP slots), 32 GB onboard storage. Maximum managed FortiAPs (Total / Tunnel) 64 / 32.
FortiGate 140D	FG-140D	40x GE RJ45 (including 36x switch ports, 2x Mgmt/HA ports, 2x WAN ports), 2x GE SFP DMZ slots, 32 GB onboard storage. Maximum managed FortiAPs (Total / Tunnel) 64 / 32.
FortiGate 140D-POE	FG-140D-POE	40x GE RJ45 (including 16x PoE ports, 20x switch ports, 2x Mgmt/HA ports, 2x WAN ports), 2x GE SFP DMZ slots, 32 GB onboard storage. Maximum managed FortiAPs (Total / Tunnel) 64 / 32.



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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