

FortiGate® 80E Series

FortiGate 80E, 80E-POE, FortiGate 81E, and 81E-POE

**Secure SD-WAN
Next Generation Firewall**



The FortiGate 80E series provides a fast and secure SD-WAN solution in a compact fanless desktop form factor for enterprise branch offices and mid-sized businesses. Protects against cyber threats with system-on-a-chip acceleration and industry-leading secure SD-WAN in a simple, affordable, and easy to deploy solution. Fortinet’s Security-Driven Networking approach provides tight integration of the network to the new generation of security.

Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevents and detects against known attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services
- Proactively blocks unknown sophisticated attacks in real-time with the Fortinet Security Fabric integrated AI-powered FortiSandbox

Performance

- Engineered for Innovation using Fortinet’s purpose-built security processors (SPU) to deliver the industry’s best threat protection performance and ultra-low latency
- Provides industry-leading performance and protection for SSL encrypted traffic including the first firewall vendor to provide TLS 1.3 deep inspection

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

- Application aware routing with in-built SD-WAN capabilities to achieve consistent application performance and the best user experience
- Built-in advanced routing capabilities to deliver high performance with encrypted IPSEC tunnels at scale

Management

- Includes a management console that is effective and simple to use, which provides a comprehensive network of automation & visibility
- Provides Zero Touch Provisioning leveraging Single Pane of Glass Management powered by the Fabric Management Center
- Predefined compliance checklists analyze the deployment and highlight best practices to improve the overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners’ products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing, and automated remediation
- 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
4 Gbps	450 Mbps	360 Mbps	250 Mbps	Multiple GE RJ45 Variants with internal storage Variants with PoE/+ interfaces

Refer to the specifications table for details

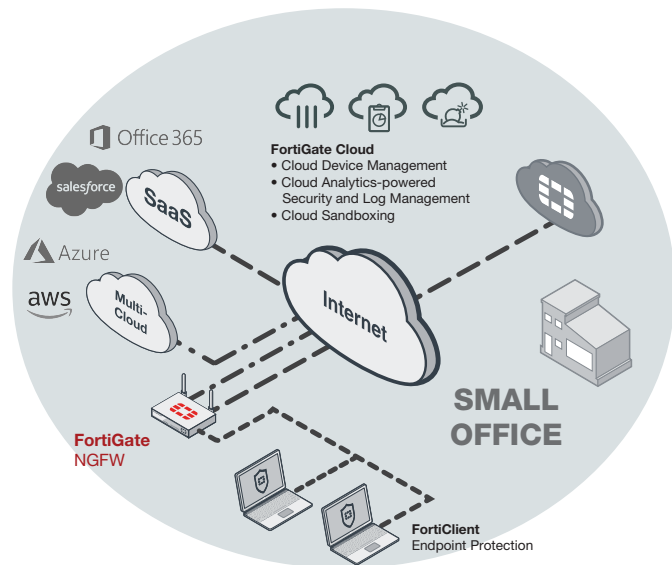
Deployment

Next Generation Firewall (NGFW)

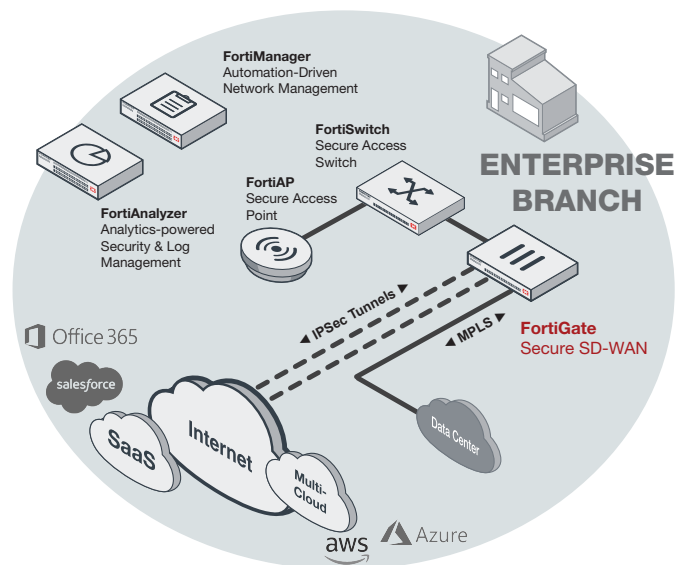
- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industry-validated IPS that offers low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

Secure SD-WAN

- Consistent business application performance with accurate detection, dynamic WAN path steering and optimization
- Multi-cloud access for faster SaaS adoption with end-to-end optimization
- Simplification with zero touch deployment and centralized management with auto-provisioning, analytics and reporting
- Strong security posture with next generation firewall and real-time threat protection



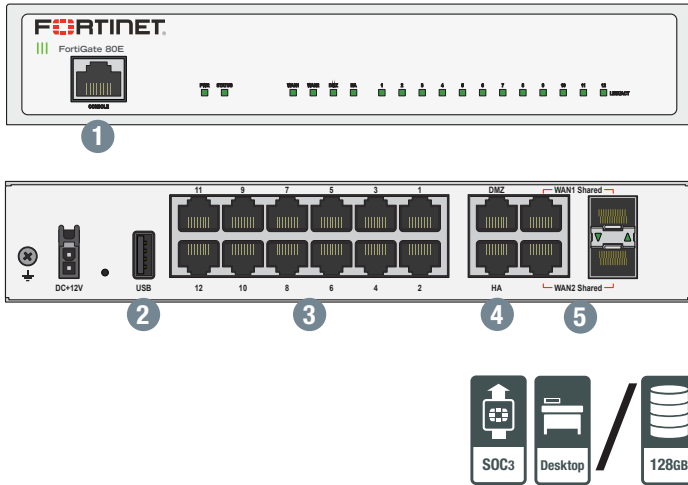
FortiGate 80E deployment in Small Office (NGFW)



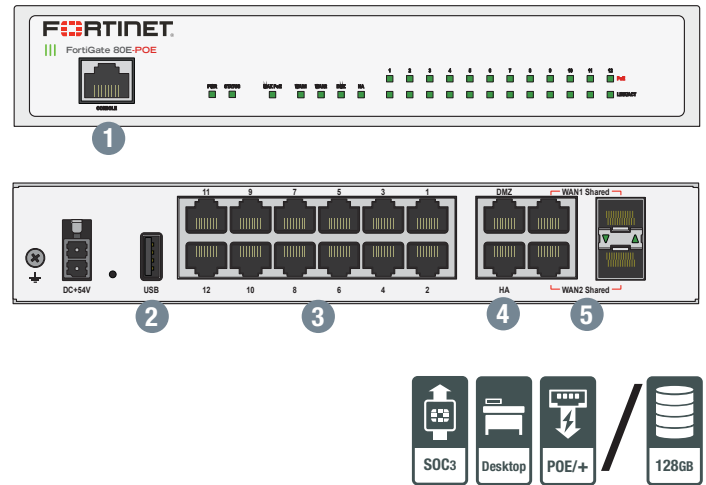
FortiGate 80E deployment in Enterprise Branch (Secure SD-WAN)

Hardware

FortiGate 80E/81E



FortiGate 80E/81E-POE



Interfaces

1. Console Port
2. USB Port
3. 12x GE RJ45 Ports
4. 2x GE RJ45 DMZ/HA Ports
5. 2x GE RJ45/SFP Shared Media Pairs

Interfaces

1. Console Port
2. USB Port
3. 12x GE RJ45 PoE/+ Ports
4. 2x GE RJ45 DMZ/HA Ports
5. 2x GE RJ45/SFP Shared Media Pairs

Powered by SPU SoC3

- Combines a RISC-based CPU with Fortinet's proprietary SPU content and network processors for unmatched performance
- Simplifies appliance design and enables breakthrough performance for smaller networks
- Supports firewall acceleration across all packet sizes for maximum throughput
- Delivers accelerated UTM content processing for superior performance and protection
- Accelerates VPN performance for high speed and secure remote access



3G/4G WAN Connectivity

The FortiGate 80E Series includes a USB port that allows you to plug in a compatible third-party 3G/4G USB modem, providing additional WAN connectivity or a redundant link for maximum reliability.

Compact and Reliable Form Factor

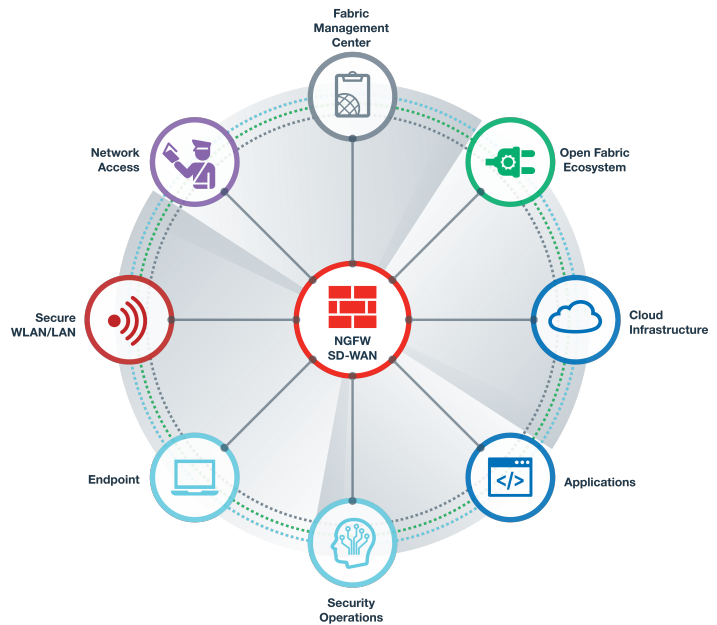
Designed for small environments, you can place it on a desktop or wall-mount it. It is small, lightweight yet highly reliable with superior MTBF (Mean Time Between Failure), minimizing the chance of a network disruption.

Fortinet Security Fabric

Security Fabric

The Security Fabric is the cybersecurity platform that enables digital innovations. It delivers broad visibility of the entire attack surface to better manage risk. Its unified and integrated solution reduces the complexity of supporting multiple-point products, while automated workflows increase operational speeds and reduce response times across the Fortinet deployment ecosystem. The Fortinet Security Fabric covers the following key areas under a single management center:

- **Security-Driven Networking** that secures, accelerates, and unifies the network and user experience
- **Zero Trust Network Access** that identifies and secures users and devices in real-time, on and off of the network
- **Dynamic Cloud Security** that protects and controls cloud infrastructures and applications
- **AI-Driven Security Operations** that automatically prevents, detects, isolates, and responds to cyber threats



FortiOS

FortiGates are the foundation of the Fortinet Security Fabric—the core is FortiOS. All security and networking capabilities across the entire FortiGate platform are controlled with one intuitive operating system. FortiOS reduces complexity, costs, and response times by truly consolidating next-generation security products and services into one platform.

- A truly consolidated platform with a single OS and pane-of-glass for across the entire digital attack surface.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSCA validated security and performance.
- Leverage the latest technologies such as deception-based security.

Services




FortiGuard Labs offer 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.

- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Automatically prevent, detect, and mitigate advanced attacks within minutes with an integrated AI-driven security and advanced threat protection.
- Improve and unify the user experience with innovative SD-WAN capabilities with the ability to detect, contain, and isolate threats with automated segmentation.
- Utilize SPU hardware acceleration to boost network security performance.



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 80E	FORTIGATE 80E-POE	FORTIGATE 81E	FORTIGATE 81E-POE
Hardware Specifications				
GE RJ45/SFP Shared Media Pairs	2	2	2	2
GE RJ45 Ports	12	—	12	—
GE RJ45 PoE/+ Ports	—	12	—	12
GE RJ45 DMZ/HA Ports	2	2	2	2
USB Ports	1	1	1	1
Console (RJ45)	1	1	1	1
Internal Storage	—	—	1x 128 GB SSD	1x 128 GB SSD
System Performance — Enterprise Traffic Mix				
IPS Throughput ²			450 Mbps	
NGFW Throughput ^{2,4}			360 Mbps	
Threat Protection Throughput ^{2,5}			250 Mbps	
System Performance				
Firewall Throughput (1518 / 512 / 64 byte UDP packets)			4 / 4 / 4 Gbps	
Firewall Latency (64 byte UDP packets)			3 µs	
Firewall Throughput (Packets Per Second)			6 Mpps	
Concurrent Sessions (TCP)			1.3 Million	
New Sessions/Second (TCP)			30,000	
Firewall Policies			5,000	
IPsec VPN Throughput (512 byte) ¹			2.5 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels			200	
Client-to-Gateway IPsec VPN Tunnels			2,500	
SSL-VPN Throughput			200 Mbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)			200	
SSL Inspection Throughput (IPS, avg. HTTPS) ³			135 Mbps	
SSL Inspection CPS (IPS, avg. HTTPS) ³			135	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³			95,000	
Application Control Throughput (HTTP 64K) ²			900 Mbps	
CAPWAP Throughput (HTTP 64K)			920 Mbps	
Virtual Domains (Default / Maximum)			10 / 10	
Maximum Number of FortiSwitches Supported			16	
Maximum Number of FortiAPs (Total / Tunnel Mode)			32 / 16	
Maximum Number of FortiTokens			500	
High Availability Configurations			Active / Active, Active / Passive, Clustering	
Dimensions				
Height x Width x Length (inches)			1.65 x 8.5 x 7	
Height x Width x Length (mm)			42 x 216 x 178	
Weight			2.65 lbs (1.2 kg)	
Form Factor			Desktop	

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 values use an average of HTTPS sessions of different cipher suites.
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 80E	FORTIGATE 80E-POE	FORTIGATE 81E	FORTIGATE 81E-POE
Environment				
Input Rating	12Vdc, 3A	54Vdc, 2.78A	12Vdc, 3A	54Vdc, 2.78A
Power Required	Powered by External DC Power Adapter, 100–240V AC, 50–60 Hz			
Maximum Current	100V AC / 0.25A, 240V AC / 0.11A	115V AC / 1.2A, 230V AC / 0.6A	100V AC / 0.27A, 240V AC / 0.12A	115V AC / 1.2A, 230V AC / 0.6A
Total Available PoE Power Budget*	—	110 W	—	110 W
Power Consumption (Average / Maximum)	18 W / 25 W	20 W / 137 W	20 W / 72 W	20 W / 137 W
Heat Dissipation	85.3 BTU/h	467.5 BTU/h	92.1 BTU/h	467.5 BTU/h
Operating Temperature	32–104°F (0–40°C)			
Storage Temperature	-31–158°F (-35–70°C)			
Humidity	10–90% non-condensing			
Noise Level	Fanless 0 dBA	35 dBA	Fanless 0 dBA	35 dBA
Operating Altitude	Up to 16,404 ft (5,000 m)			
Compliance	FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB			
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN			

* Maximum loading on each PoE/+ port is 30 W (802.3at).

Order Information

Product	SKU	Description
FortiGate 80E	FG-80E	14x GE RJ45 ports (including 1x DMZ port, 1x Mgmt port, 1x HA port, 12x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots)
FortiGate 80E-PoE	FG-80E-POE	16x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x HA port, 12x PoE ports)
FortiGate 81E	FG-81E	14x GE RJ45 ports (including 1x DMZ port, 1x Mgmt port, 1x HA port, 12 x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots), 128 GB onboard storage
FortiGate 81E-PoE	FG-81E-POE	16x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x HA port, 12x PoE ports), 128 GB onboard storage

Bundles



FortiGuard 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 one of these FortiGuard Bundles.

Bundles	360 Protection	Enterprise Protection	Unified Threat Protection	Threat Protection
FortiCare	ASE 1	24x7	24x7	24x7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	•	•
FortiGuard Antispam Service	•	•	•	•
FortiGuard Security Rating Service	•	•	•	•
FortiGuard Industrial Service	•	•	•	•
FortiGuard IoT Detection Service 2	•	•	•	•
FortiConverter Service	•	•	•	•
IPAM Cloud 2	•	•	•	•
SD-WAN Orchestrator Entitlement 2	•	•	•	•
SD-WAN Cloud Assisted Monitoring	•	•	•	•
SD-WAN Overlay Controller VPN Service	•	•	•	•
FortiAnalyzer Cloud	•	•	•	•
FortiManager Cloud	•	•	•	•

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.4



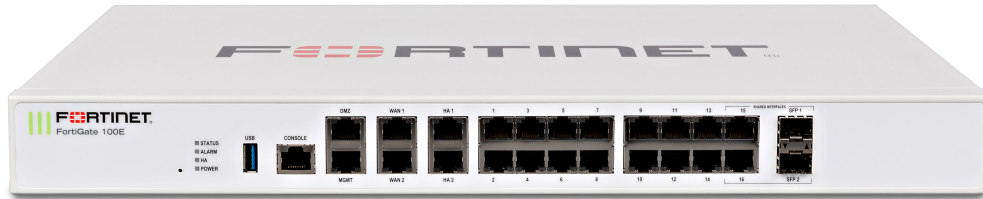
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FortiGate® 100E Series

FortiGate 100E, 101E, 100EF, and 140E-POE

**Next Generation Firewall
Secure SD-WAN
Secure Web Gateway**



The FortiGate 100E series delivers next generation firewall (NGFW) capabilities for mid-sized to large enterprises deployed at the campus or enterprise branch level. Protects against cyber threats with high-powered security processors for optimized network performance, security efficacy and deep visibility. Fortinet’s Security-Driven Networking approach provides tight integration of the network to the new generation of security.

Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevents and detects against known attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services
- Proactively blocks unknown sophisticated attacks in real-time with the Fortinet Security Fabric integrated AI-powered FortiSandbox

Performance

- Engineered for Innovation using Fortinet’s purpose-built security processors (SPU) to deliver the industry’s best threat protection performance and ultra-low latency
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Networking

- Application aware routing with in-built SD-WAN capabilities to achieve consistent application performance and the best user experience
- Built-in advanced routing capabilities to deliver high performance with encrypted IPSEC tunnels at scale

Management

- Includes a management console that is effective and simple to use, which provides a comprehensive network of automation & visibility
- Provides Zero Touch Provisioning leveraging Single Pane of Glass Management powered by the Fabric Management Center
- Predefined compliance checklists analyze the deployment and highlight best practices to improve the overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners’ products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing, and automated remediation
- 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
7.4 Gbps	500 Mbps	360 Mbps	250 Mbps	Multiple GE RJ45, GE SFP Slots PoE/+ Variants

Refer to the specifications table for details

Deployment

Next Generation Firewall (NGFW)

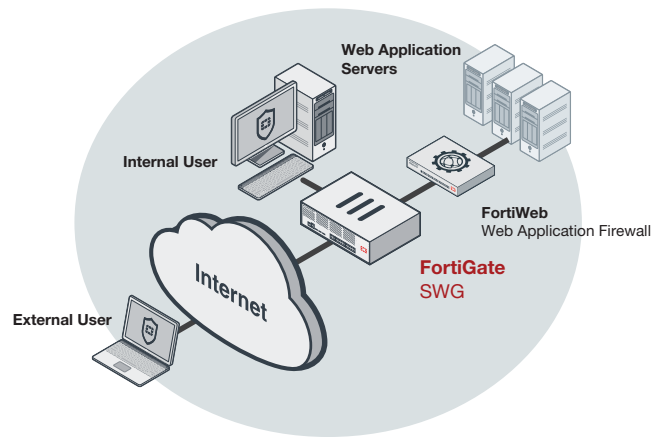
- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industry-validated IPS that offers low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

Secure SD-WAN

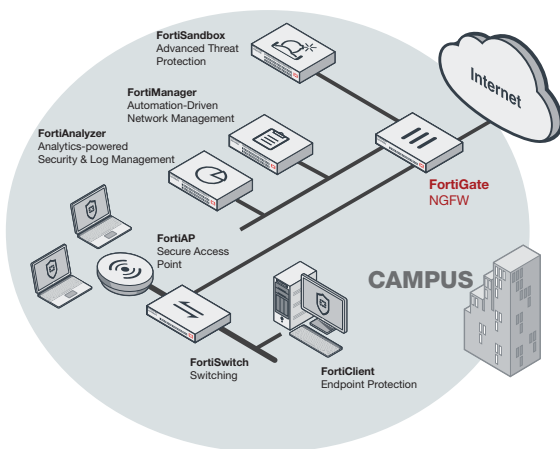
- Consistent business application performance with accurate detection, dynamic WAN path steering and optimization
- Multi-cloud access for faster SaaS adoption with end-to-end optimization
- Simplification with zero touch deployment and centralized management with auto-provisioning, analytics and reporting
- Strong security posture with next generation firewall and real-time threat protection

Secure Web Gateway (SWG)

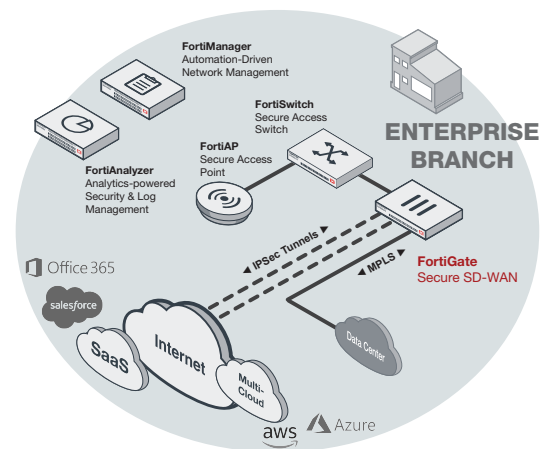
- Secure web access from both internal and external risks, even for encrypted traffic at high performance
- Enhanced user experience with dynamic web and video caching
- Block and control web access based on user or user groups across URL's and domains
- Prevent data loss and discover user activity to known and unknown cloud applications
- Block DNS requests against malicious domains
- Multi-layered advanced protection against zero-day malware threats delivered over the web



FortiGate 100E SWG deployment



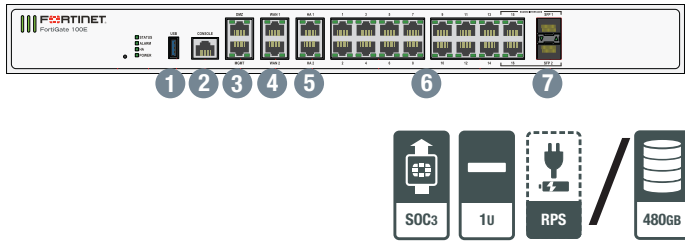
FortiGate 100E deployment in Campus (NGFW)



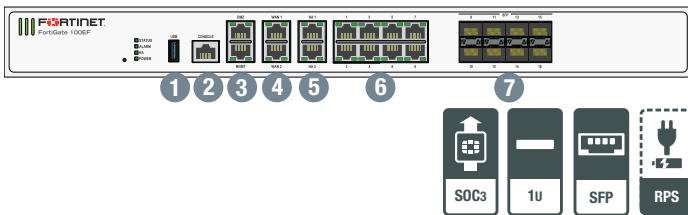
FortiGate 100E deployment in Enterprise Branch (Secure SD-WAN)

Hardware

FortiGate 100E/101E



FortiGate 100EF



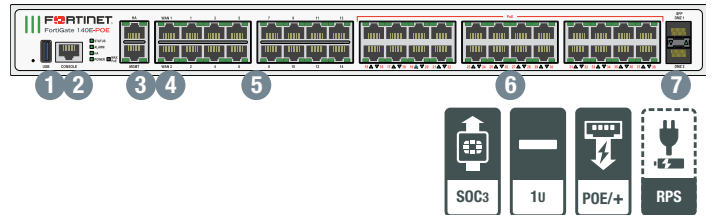
Interfaces

1. USB Port
2. Console Port
3. 2x GE RJ45 MGMT/DMZ Ports
4. 2x GE RJ45 WAN Ports
5. 2x GE RJ45 HA Ports
6. 8x GE RJ45 Ports
7. 8x GE SFP Slots

Interfaces

1. USB Port
2. Console Port
3. 2x GE RJ45 MGMT/DMZ Ports
4. 2x GE RJ45 WAN Ports
5. 2x GE RJ45 HA Ports
6. 14x GE RJ45 Ports
7. 2x GE RJ45/SFP Shared Media Pairs

FortiGate 140E-POE



Interfaces

1. USB Port
2. Console Port
3. 2x GE RJ45 MGMT/HA Ports
4. 2x GE RJ45 WAN Ports
5. 14x GE RJ45 Ports
6. 24x GE RJ45 POE Ports
7. 2x GE SFP DMZ Slots

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

Fortinet's new, breakthrough SPU CP9 content processor works outside of the direct flow of traffic and accelerates the inspection of computationally intensive security features:

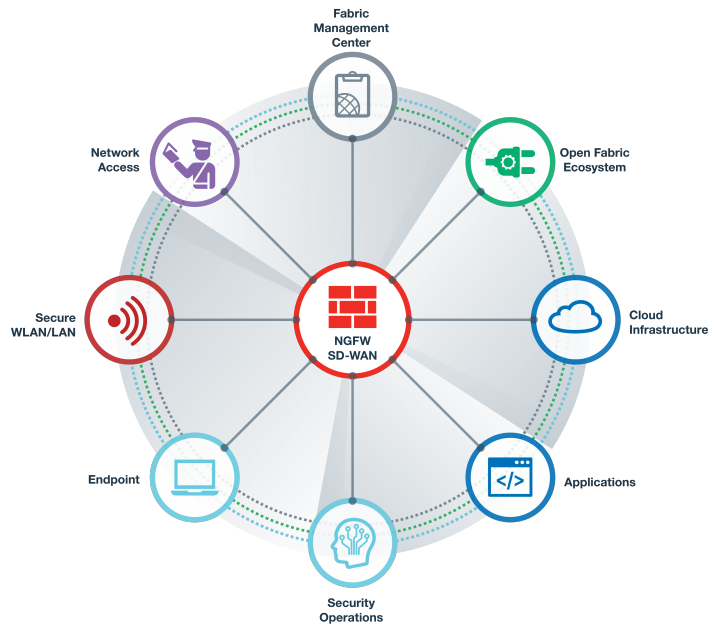
- Enhanced IPS performance with unique capability of full signature matching at ASIC
- SSL Inspection capabilities based on the latest industry mandated cipher suites
- Encryption and decryption offloading

Fortinet Security Fabric

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- Leverage the latest technologies such as deception-based security.

Services




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- Utilize SPU hardware acceleration to boost network security performance.



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Specifications

	FORTIGATE 100E	FORTIGATE 101E	FORTIGATE 100EF	FORTIGATE 140E-POE
Hardware Specifications				
GE RJ45 Ports	14	14	8	14
GE RJ45 Management/HA/DMZ Ports	1 / 2 / 1	1 / 2 / 1	1 / 2 / 1	1 / 1 / —
GE SFP Slots	—	—	8	2
GE RJ45 PoE/+ Ports	—	—	—	24
GE RJ45 WAN Ports	2	2	2	2
GE RJ45 or SFP Shared Ports	2	2	—	—
USB Port	1	1	1	1
Console Port	1	1	1	1
Internal Storage	—	1x 480 GB SSD	—	—
Included Transceivers	0	0	0	0
System Performance — Enterprise Traffic Mix				
IPS Throughput ²			500 Mbps	
NGFW Throughput ^{2,4}			360 Mbps	
Threat Protection Throughput ^{2,5}			250 Mbps	
System Performance				
Firewall Throughput (1518 / 512 / 64 byte UDP packets)			7.4 / 7.4 / 4.4 Gbps	
Firewall Latency (64 byte UDP packets)			3 µs	
Firewall Throughput (Packets Per Second)			6.6 Mpps	
Concurrent Sessions (TCP)			2 Million	
New Sessions/Second (TCP)			30,000	
Firewall Policies			10,000	
IPsec VPN Throughput (512 byte) ¹			4 Gbps	
Gateway-to-Gateway IPsec VPN Tunnels			2,000	
Client-to-Gateway IPsec VPN Tunnels			10,000	
SSL-VPN Throughput			250 Mbps	
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)			500	
SSL Inspection Throughput (IPS, avg. HTTPS) ³			130 Mbps	
SSL Inspection CPS (IPS, avg. HTTPS) ³			130	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³			125,000	
Application Control Throughput (HTTP 64K) ²			1 Gbps	
CAPWAP Throughput (1444 byte, UDP)			1.5 Gbps	
Virtual Domains (Default / Maximum)			10 / 10	
Maximum Number of FortiSwitches Supported			24	
Maximum Number of FortiAPs (Total / Tunnel Mode)			64 / 32	
Maximum Number of FortiTokens			5,000	
High Availability Configurations			Active / Active, Active / Passive, Clustering	
Dimensions				
Height x Width x Length (inches)	1.75 x 17 x 10	1.75 x 17 x 10	1.75 x 17 x 10	1.75 x 17 x 15.5
Height x Width x Length (mm)	44.45 x 432 x 254	44.45 x 432 x 254	44.45 x 432 x 254	44.45 x 432 x 394
Form Factor (supports EIA / non-EIA standards)	Rack Mount, 1 RU	Rack Mount, 1 RU	Rack Mount, 1 RU	Rack Mount, 1 RU
Weight	7.28 lbs (3.3 kg)	7.28 lbs (3.3 kg)	7.28 lbs (3.3 kg)	12.4 lbs (5.6 kg)
Environment				
Power Input			100–240V AC, 50–60 Hz	
Maximum Current	100V / 0.52A, 240V / 0.22A	100V / 0.59A, 240V / 0.25A	100V / 0.52A, 240V / 0.22A	100V / 5A
Total Available PoE Power Budget*	—	—	—	400 W
Power Consumption (Average / Maximum)	23.0 W / 28.6 W; 51.9 VA	24.8 W / 33.8 W; 59.2 VA	24.4 W / 28.6 W; 51.9 VA	477.1 W / 500.0 W
Heat Dissipation	97.6 BTU/h	115.3 BTU/h	97.6 BTU/h	1706.07 BTU/h

* Maximum loading on each PoE/+ port is 30 W (802.3at).

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 values use an average of HTTPS sessions of different cipher suites.

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 100E	FORTIGATE 101E	FORTIGATE 100EF	FORTIGATE 140E-POE
Environment				
Operating Temperature		32–104°F (0–40°C)		
Storage Temperature		-31–158°F (-35–70°C)		
Operating Altitude		Up to 7,400 ft (2,250 m)		
Humidity		10–90% non-condensing		
Noise Level	40.4 dBA	40.4 dBA	40.4 dBA	57 dBA
Compliance		FCC, ICES, CE, RCM, VCCI, BSMI, UL/cUL, CB		
Certifications		ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6		

Order Information

Product	SKU	Description
FortiGate 100E	FG-100E	20x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 14x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots)
FortiGate 101E	FG-101E	20 x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 14x switch ports), 2x Shared Media pairs (including 2x GE RJ45 ports, 2x SFP slots) 480 GB onboard storage
FortiGate 100EF	FG-100EF	14x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 8x internal switch ports), 8x SFP ports
FortiGate 140E-POE	FG-140E-POE	42x GE RJ45 ports (including 2x WAN ports, 1x Mgmt port, 1x HA port, 24x RJ45 GE PoE/PoE+ ports, 14x switch ports), 2x GE SFP DMZ slots
Optional Accessories		
External redundant AC power supply	FRPS-100	External redundant AC power supply for up to 4 units: FG-100/101E, FG-300C, FG-310B, FS-348B and FS-448B. Up to 2 units: FG-200B, FG-200D, FG-200/201E, 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.

Bundles



FortiGuard 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 one of these FortiGuard Bundles.

Bundles	360 Protection	Enterprise Protection	Unified Threat Protection	Threat Protection
FortiCare	ASE ¹	24x7	24x7	24x7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard Industrial Service	•	•		
FortiGuard IoT Detection Service ²	•	•		
FortiConverter Service	•	•		
IPAM Cloud ²	•			
SD-WAN Orchestrator Entitlement ²	•			
SD-WAN Cloud Assisted Monitoring	•			
SD-WAN Overlay Controller VPN Service	•			
FortiAnalyzer Cloud	•			
FortiManager Cloud	•			

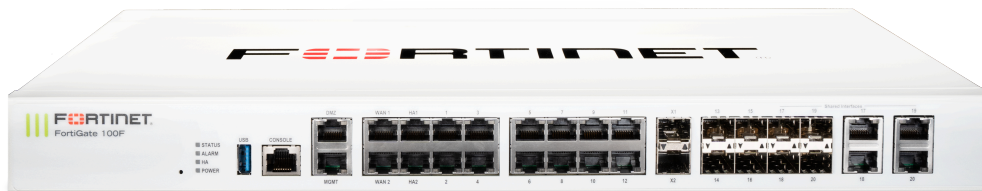
1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.4



FortiGate® 100F Series

FortiGate 100F and 101F

Next Generation Firewall
Secure SD-WAN
Secure Web Gateway



The FortiGate 100F series delivers next generation firewall (NGFW) capabilities for mid-sized to large enterprises deployed at the campus or enterprise branch level. Protects against cyber threats with high-powered security processors for optimized network performance, security efficacy and deep visibility. Fortinet’s Security-Driven Networking approach provides tight integration of the network to the new generation of security.

Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevents and detects against known attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services
- Proactively blocks unknown sophisticated attacks in real-time with the Fortinet Security Fabric integrated AI-powered FortiSandbox

Performance

- Engineered for Innovation using Fortinet’s purpose-built security processors (SPU) to deliver the industry’s best threat protection performance and ultra-low latency
- Provides industry-leading performance and protection for SSL encrypted traffic including the first firewall vendor to provide TLS 1.3 deep inspection

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

- Application aware routing with in-built SD-WAN capabilities to achieve consistent application performance and the best user experience
- Built-in advanced routing capabilities to deliver high performance with encrypted IPSEC tunnels at scale

Management

- Includes a management console that is effective and simple to use, which provides a comprehensive network of automation & visibility
- Provides Zero Touch Provisioning leveraging Single Pane of Glass Management powered by the Fabric Management Center
- Predefined compliance checklists analyze the deployment and highlight best practices to improve the overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners’ products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing, and automated remediation
- 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
20 Gbps	2.6 Gbps	1.6 Gbps	1 Gbps	Multiple GE RJ45, GE SFP and 10 GE SFP+ slots

Refer to the specifications table for details

Deployment

Next Generation Firewall (NGFW)

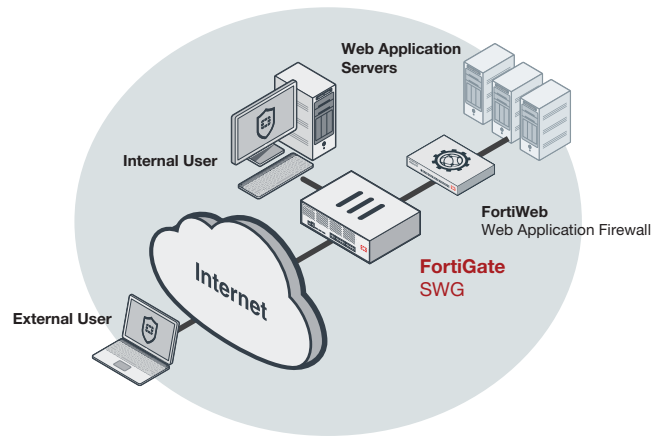
- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industry-validated IPS that offers low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

Secure SD-WAN

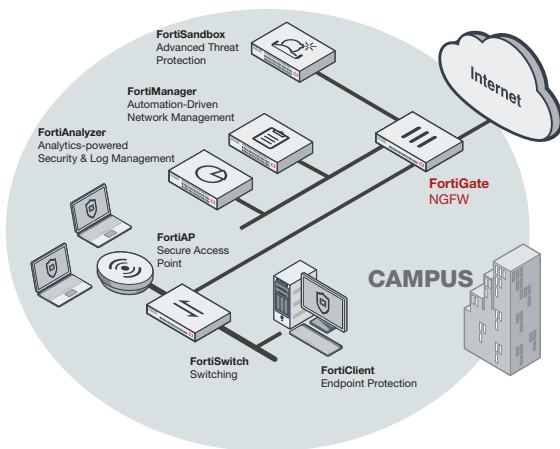
- Consistent business application performance with accurate detection, dynamic WAN path steering and optimization
- Multi-cloud access for faster SaaS adoption with end-to-end optimization
- Simplification with zero touch deployment and centralized management with auto-provisioning, analytics and reporting
- Strong security posture with next generation firewall and real-time threat protection

Secure Web Gateway (SWG)

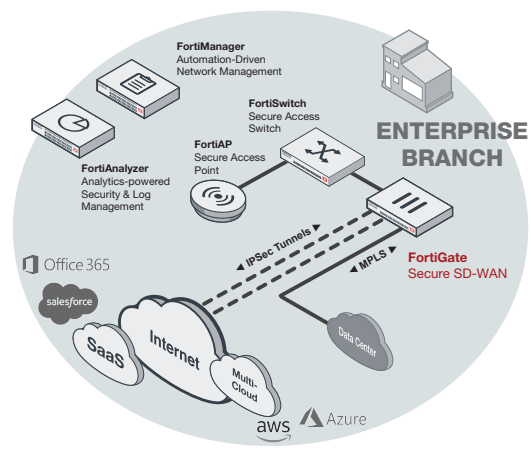
- Secure web access from both internal and external risks, even for encrypted traffic at high performance
- Enhanced user experience with dynamic web and video caching
- Block and control web access based on user or user groups across URL's and domains
- Prevent data loss and discover user activity to known and unknown cloud applications
- Block DNS requests against malicious domains
- Multi-layered advanced protection against zero-day malware threats delivered over the web



FortiGate 100F SWG deployment



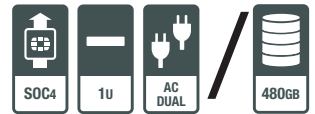
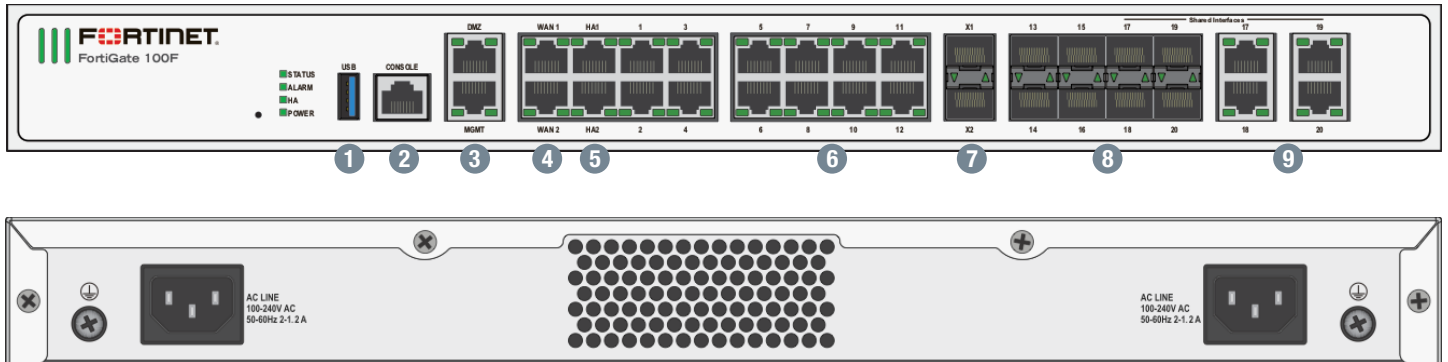
FortiGate 100F deployment in Campus (NGFW)



FortiGate 100F deployment in Enterprise Branch (Secure SD-WAN)

Hardware

FortiGate 100F/101F



Interfaces

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. USB Port 2. Console Port 3. 2x GE RJ45 MGMT/DMZ Ports 4. 2x GE RJ45 WAN Ports 5. 2x GE RJ45 HA Ports | <ol style="list-style-type: none"> 6. 12x GE RJ45 Ports 7. 2x 10 GE SFP+ FortiLink Slots 8. 4x GE SFP Slots 9. 4x GE RJ45/SFP Shared Media Pairs |
|---|--|

Powered by Purpose-built Secure SD-WAN ASIC SOC4



- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Delivers industry's fastest application identification and steering for efficient business operations
- Accelerates IPsec VPN performance for best user-experience on direct internet access
- Enables best of breed NGFW Security and Deep SSL Inspection with high performance
- Extends security to access layer to enable SD-Branch transformation with accelerated and integrated switch and access point connectivity

Dual Power Supplies

Power supply redundancy is essential in the operation of mission-critical networks. The FortiGate 100F Series offers dual built-in non-hot swappable power supplies.

Extends Security to Access Layer with FortiLink Ports

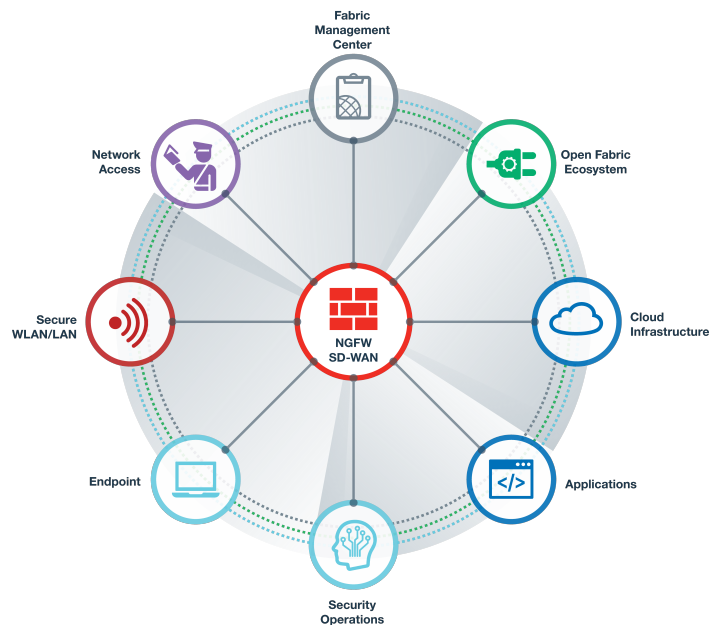
FortiLink protocol enables you to converge security and the network access by integrating the FortiSwitch into the FortiGate as a logical extension of the NGFW. These FortiLink enabled ports can be reconfigured as regular ports as needed.

Fortinet Security Fabric

Security Fabric

The Security Fabric is the cybersecurity platform that enables digital innovations. It delivers broad visibility of the entire attack surface to better manage risk. Its unified and integrated solution reduces the complexity of supporting multiple-point products, while automated workflows increase operational speeds and reduce response times across the Fortinet deployment ecosystem. The Fortinet Security Fabric covers the following key areas under a single management center:

- **Security-Driven Networking** that secures, accelerates, and unifies the network and user experience
- **Zero Trust Network Access** that identifies and secures users and devices in real-time, on and off of the network
- **Dynamic Cloud Security** that protects and controls cloud infrastructures and applications
- **AI-Driven Security Operations** that automatically prevents, detects, isolates, and responds to cyber threats



FortiOS

FortiGates are the foundation of the Fortinet Security Fabric—the core is FortiOS. All security and networking capabilities across the entire FortiGate platform are controlled with one intuitive operating system. FortiOS reduces complexity, costs, and response times by truly consolidating next-generation security products and services into one platform.

- A truly consolidated platform with a single OS and pane-of-glass for across the entire digital attack surface.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSCA validated security and performance.
- Leverage the latest technologies such as deception-based security.

- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Automatically prevent, detect, and mitigate advanced attacks within minutes with an integrated AI-driven security and advanced threat protection.
- Improve and unify the user experience with innovative SD-WAN capabilities with the ability to detect, contain, and isolate threats with automated segmentation.
- Utilize SPU hardware acceleration to boost network security performance.

Services



FortiGuard™ Security Services

FortiGuard Labs offer 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 100F	FORTIGATE 101F
Hardware Specifications		
GE RJ45 Ports		12
GE RJ45 Management/HA/DMZ Ports		1 / 2 / 1
GE SFP Slots		4
10 GE SFP+ Slots		2
GE RJ45 WAN Ports		2
GE RJ45 or SFP Shared Ports *		4
USB Port		1
Console Port		1
Internal Storage	—	1x 480 GB SSD
Included Transceivers		0
System Performance — Enterprise Traffic Mix		
IPS Throughput ²		2.6 Gbps
NGFW Throughput ^{2,4}		1.6 Gbps
Threat Protection Throughput ^{2,5}		1 Gbps
System Performance		
Firewall Throughput (1518 / 512 / 64 byte UDP packets)		20 / 18 / 10 Gbps
Firewall Latency (64 byte UDP packets)		5 µs
Firewall Throughput (Packets Per Second)		15 Mpps
Concurrent Sessions (TCP)		1.5 Million
New Sessions/Second (TCP)		56,000
Firewall Policies		10,000
IPsec VPN Throughput (512 byte) ¹		11.5 Gbps
Gateway-to-Gateway IPsec VPN Tunnels		2,500
Client-to-Gateway IPsec VPN Tunnels		16,000
SSL-VPN Throughput		1 Gbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)		500
SSL Inspection Throughput (IPS, avg. HTTPS) ³		1 Gbps
SSL Inspection CPS (IPS, avg. HTTPS) ³		1,800
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³		135,000
Application Control Throughput (HTTP 64K) ²		2.2 Gbps
CAPWAP Throughput (HTTP 64K)		15 Gbps
Virtual Domains (Default / Maximum)		10 / 10
Maximum Number of FortiSwitches Supported		24
Maximum Number of FortiAPs (Total / Tunnel Mode)		128 / 64
Maximum Number of FortiTokens		5,000
High Availability Configurations		Active / Active, Active / Passive, Clustering

	FORTIGATE 100F	FORTIGATE 101F
Dimensions		
Height x Width x Length (inches)	1.73 x 17 x 10	
Height x Width x Length (mm)	44 x 432 x 254	
Form Factor (supports EIA / non-EIA standards)	Rack Mount, 1 RU	
Weight	7.25 lbs (3.29 kg)	7.56 lbs (3.43 kg)
Environment		
Power Required	100–240V AC, 50-60	
Maximum Current	100V / 1A, 240V / 0.5A	
Power Consumption (Average / Maximum)	35.1 W / 38.7 W	35.3 W / 39.1 W
Heat Dissipation	119.77 BTU/h	121.13 BTU/h
Redundant Power Supplies	Yes	
Environment		
Operating Temperature	32–104°F (0–40°C)	
Storage Temperature	-31–158°F (-35–70°C)	
Operating Altitude	Up to 7,400 ft (2,250 m)	
Humidity	10–90% non-condensing	
Noise Level	40.4 dBA	
Compliance	FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI	
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; IPv6	

* Copper SFP module is not supported.

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 values use an average of HTTPS sessions of different cipher suites.

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 100F	FG-100F	22x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 16x switch ports with 4 SFP port shared media), 4 SFP ports, 2x 10 GE SFP+ FortiLinks, dual power supplies redundancy
FortiGate 101F	FG-101F	22x GE RJ45 ports (including 2x WAN ports, 1x DMZ port, 1x Mgmt port, 2x HA ports, 16x switch ports with 4 SFP port shared media), 4 SFP ports, 2x 10 GE SFP+ FortiLinks, 480GB onboard storage, dual power supplies redundancy
Optional Accessories		
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, short range for all systems with SFP+ and SFP/SFP+ slots

Bundles



FortiGuard 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 one of these FortiGuard Bundles.

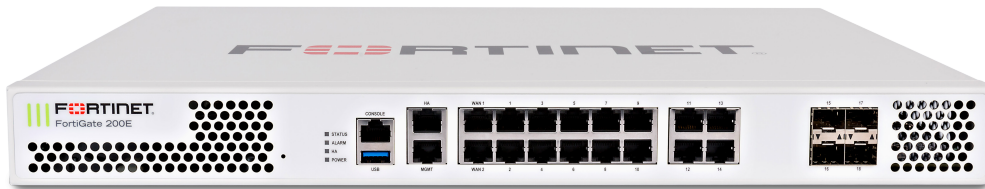
Bundles	360 Protection	Enterprise Protection	Unified Threat Protection	Threat Protection
FortiCare	ASE ¹	24x7	24x7	24x7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	•	•
FortiGuard Antispam Service	•	•	•	•
FortiGuard Security Rating Service	•	•	•	•
FortiGuard Industrial Service	•	•	•	•
FortiGuard IoT Detection Service ²	•	•	•	•
FortiConverter Service	•	•	•	•
IPAM Cloud ²	•	•	•	•
SD-WAN Orchestrator Entitlement ²	•	•	•	•
SD-WAN Cloud Assisted Monitoring	•	•	•	•
SD-WAN Overlay Controller VPN Service	•	•	•	•
FortiAnalyzer Cloud	•	•	•	•
FortiManager Cloud	•	•	•	•

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.4

FortiGate® 200E Series

FortiGate 200E and 201E

Next Generation Firewall
Secure SD-WAN
Secure Web Gateway



The FortiGate 200E series delivers next generation firewall (NGFW) capabilities for mid-sized to large enterprises deployed at the campus or enterprise branch level. Protects against cyber threats with high-powered security processors for optimized network performance, security efficacy and deep visibility. Fortinet’s Security-Driven Networking approach provides tight integration of the network to the new generation of security.

Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevents and detects against known attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services
- Proactively blocks unknown sophisticated attacks in real-time with the Fortinet Security Fabric integrated AI-powered FortiSandbox

Performance

- Engineered for Innovation using Fortinet’s purpose-built security processors (SPU) to deliver the industry’s best threat protection performance and ultra-low latency
- Provides industry-leading performance and protection for SSL encrypted traffic including the first firewall vendor to provide TLS 1.3 deep inspection

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

- Application aware routing with in-built SD-WAN capabilities to achieve consistent application performance and the best user experience
- Built-in advanced routing capabilities to deliver high performance with encrypted IPSEC tunnels at scale

Management

- Includes a management console that is effective and simple to use, which provides a comprehensive network of automation & visibility
- Provides Zero Touch Provisioning leveraging Single Pane of Glass Management powered by the Fabric Management Center
- Predefined compliance checklists analyze the deployment and highlight best practices to improve the overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners’ products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing, and automated remediation
- 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
20 Gbps	2.2 Gbps	1.8 Gbps	1.2 Gbps	Multiple GE RJ45, GE SFP Slots

Refer to the specifications table for details

Deployment

Next Generation Firewall (NGFW)

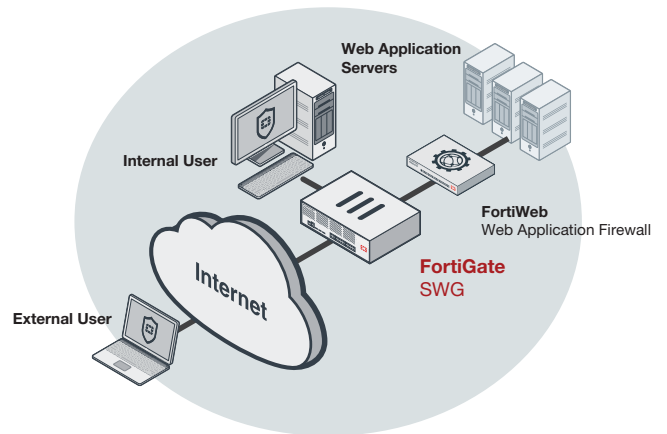
- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industry-validated IPS that offers low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

Secure SD-WAN

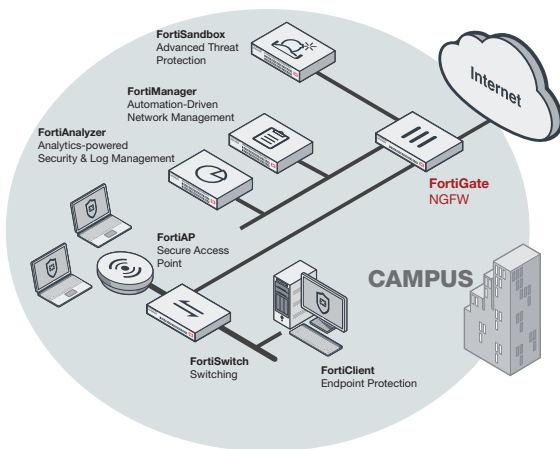
- Consistent business application performance with accurate detection, dynamic WAN path steering and optimization
- Multi-cloud access for faster SaaS adoption with end-to-end optimization
- Simplification with zero touch deployment and centralized management with auto-provisioning, analytics and reporting
- Strong security posture with next generation firewall and real-time threat protection

Secure Web Gateway (SWG)

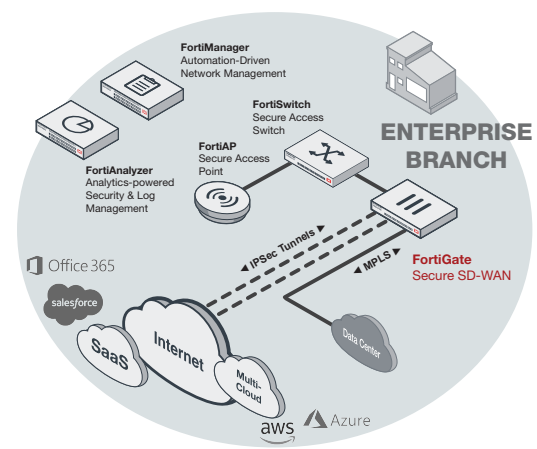
- Secure web access from both internal and external risks, even for encrypted traffic at high performance
- Enhanced user experience with dynamic web and video caching
- Block and control web access based on user or user groups across URL's and domains
- Prevent data loss and discover user activity to known and unknown cloud applications
- Block DNS requests against malicious domains
- Multi-layered advanced protection against zero-day malware threats delivered over the web



FortiGate 200E SWG deployment



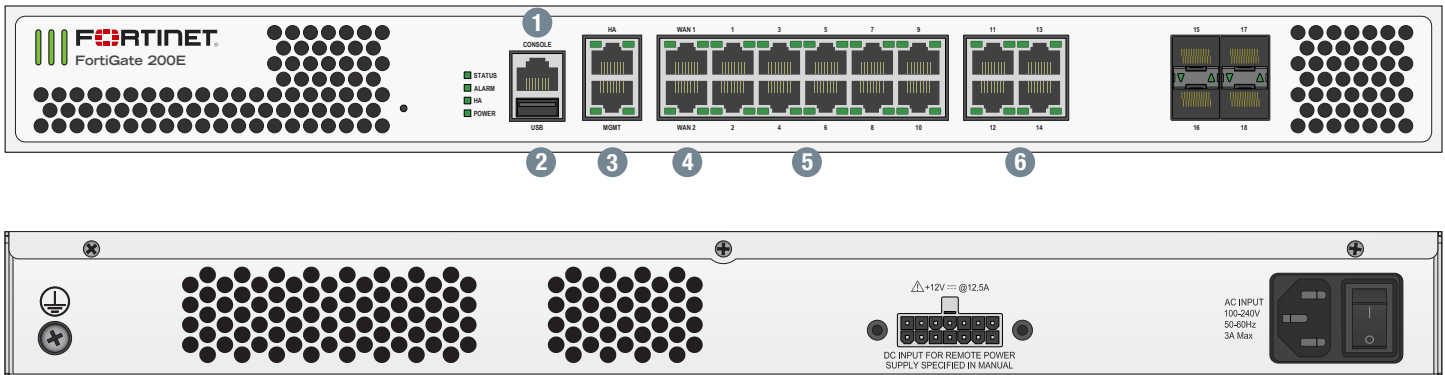
FortiGate 200E deployment in Campus (NGFW)



FortiGate 200E deployment in Enterprise Branch (Secure SD-WAN)

Hardware

FortiGate 200E/201E



Interfaces

- | | |
|-----------------------------------|-------------------------|
| 1. Console Port | 4. 2x GE RJ45 WAN Ports |
| 2. USB Port | 5. 14x GE RJ45 Ports |
| 3. 2x GE RJ45 Management/HA Ports | 6. 4x GE SFP Slots |

Powered by SPU



- Combines a RISC-based CPU with Fortinet's proprietary Security Processing Unit (SPU) content and network processors for unmatched performance
- Simplifies appliance design and enables breakthrough performance for smaller networks
- Supports firewall acceleration across all packet sizes for maximum throughput
- Delivers accelerated UTM content processing for superior performance and protection
- Accelerates VPN performance for high speed and secure remote access

Content Processor

Fortinet's new, breakthrough SPU CP9 content processor works outside of the direct flow of traffic and accelerates the inspection of computationally intensive security features:

- Enhanced IPS performance with unique capability of full signature matching at ASIC
- SSL Inspection capabilities based on the latest industry mandated cipher suites
- Encryption and decryption offloading

Network Processor

The SPU NP6Lite network processor works inline with firewall and VPN functions delivering:

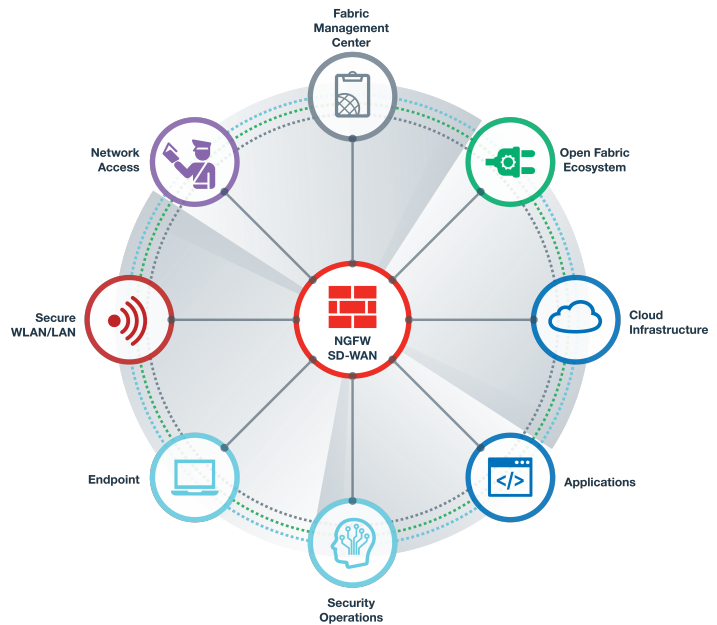
- Wire-speed firewall performance for any size packets
- VPN acceleration
- Anomaly-based intrusion prevention, checksum offload, and packet defragmentation
- Traffic shaping and priority queuing

Fortinet Security Fabric

Security Fabric

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- **Zero Trust Network Access** that identifies and secures users and devices in real-time, on and off of the network
- **Dynamic Cloud Security** that protects and controls cloud infrastructures and applications
- **AI-Driven Security Operations** that automatically prevents, detects, isolates, and responds to cyber threats



FortiOS

FortiGates are the foundation of the Fortinet Security Fabric—the core is FortiOS. All security and networking capabilities across the entire FortiGate platform are controlled with one intuitive operating system. FortiOS reduces complexity, costs, and response times by truly consolidating next-generation security products and services into one platform.

- A truly consolidated platform with a single OS and pane-of-glass for across the entire digital attack surface.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSCA validated security and performance.
- Leverage the latest technologies such as deception-based security.

Services



FortiGuard Labs offer 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.

- Control thousands of applications, block the latest exploits, and filter web traffic based on millions of real-time URL ratings in addition to true TLS 1.3 support.
- Automatically prevent, detect, and mitigate advanced attacks within minutes with an integrated AI-driven security and advanced threat protection.
- Improve and unify the user experience with innovative SD-WAN capabilities with the ability to detect, contain, and isolate threats with automated segmentation.
- Utilize SPU hardware acceleration to boost network security performance.



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 200E	FORTIGATE 201E
Hardware Specifications		
GE RJ45 WAN Interfaces		2
GE RJ45 Management/HA Ports		2
GE RJ45 Ports		14
GE SFP Slots		4
USB port		1
Console (RJ45)		1
Local Storage	—	1x 480 GB SSD
Included Transceivers		0
System Performance — Enterprise Traffic Mix		
IPS Throughput ²		2.2 Gbps
NGFW Throughput ^{2,4}		1.8 Gbps
Threat Protection Throughput ^{2,5}		1.2 Gbps
System Performance		
Firewall Throughput (1518 / 512 / 64 byte UDP packets)		20 / 20 / 9 Gbps
Firewall Latency (64 byte UDP packets)		3 µs
Firewall Throughput (Packets Per Second)		13.5 Mpps
Concurrent Sessions (TCP)		2 Million
New Sessions/Second (TCP)		135,000
Firewall Policies		10,000
IPsec VPN Throughput (512 byte) ¹		7.2 Gbps
Gateway-to-Gateway IPsec VPN Tunnels		2,000
Client-to-Gateway IPsec VPN Tunnels		10,000
SSL-VPN Throughput		900 Mbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)		500
SSL Inspection Throughput (IPS, avg. HTTPS) ³		820 Mbps
SSL Inspection CPS (IPS, avg. HTTPS) ³		1,000
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³		240,000
Application Control Throughput (HTTP 64K) ²		3.5 Gbps
CAPWAP Throughput (1444 byte, UDP)		1.5 Gbps
Virtual Domains (Default / Maximum)		10 / 10
Maximum Number of FortiSwitches Supported		64
Maximum Number of FortiAPs (Total / Tunnel Mode)		256 / 128
Maximum Number of FortiTokens		5,000
High Availability Configurations		Active / Active, Active / Passive, Clustering

	FORTIGATE 200E	FORTIGATE 201E
Dimensions		
Height x Width x Length (inches)	1.75 x 17.0 x 11.9	
Height x Width x Length (mm)	44.45 x 432 x 301	
Weight	11.9 lbs (5.4 kg)	12.12 lbs (5.5 kg)
Form Factor (supports EIA / non-EIA standards)	Rack Mount, 1 RU	
Environment		
Power Input	100–240V AC, 50–60 Hz	
Maximum Current	110 V / 3 A, 220 V / 0.42 A	
Power Consumption (Average / Maximum)	70.98 / 109.9 W	
Heat Dissipation	374.9 BTU/h	
Operating Temperature	32–104°F (0–40°C)	
Storage Temperature	-31–158°F (-35–70°C)	
Humidity	10–90% non-condensing	
Noise Level	31.1 dBA	
Operating Altitude	Up to 7,400 ft (2,250 m)	
Compliance	FCC Part 15B, Class A, CE, RCM, VCCI, UL/cUL, CB, BSMI	
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN, 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 values use an average of HTTPS sessions of different cipher suites.

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 200E	FG-200E	18x GE RJ45 (including 2x WAN ports, 1x Mgmt port, 1x HA port, 14x switch ports), 4x GE SFP slots, SPU NP6Lite and CP9 hardware accelerated.
FortiGate 201E	FG-201E	18x GE RJ45 (including 2x WAN ports, 1x Mgmt port, 1x HA port, 14x switch ports), 4x GE SFP slots, SPU NP6Lite and CP9 hardware accelerated, 480 GB onboard SSD storage.
Optional Accessories		
External redundant AC power supply	FRPS-100	External redundant AC power supply for up to 4 units: FG-100/101E, FG-300C, FG-310B, FS-348B and FS-448B. Up to 2 units: FG-200B, FG-200D, FG-200/201E, 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.

Bundles



FortiGuard 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 one of these FortiGuard Bundles.

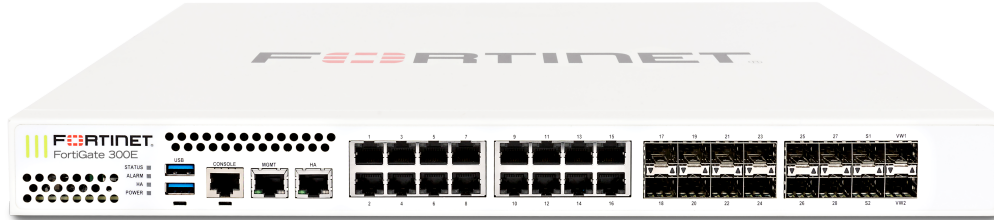
Bundles	360 Protection	Enterprise Protection	Unified Threat Protection	Threat Protection
FortiCare	ASE ¹	24x7	24x7	24x7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard Industrial Service	•	•		
FortiGuard IoT Detection Service ²	•	•		
FortiConverter Service	•	•		
IPAM Cloud ²	•			
SD-WAN Orchestrator Entitlement ²	•			
SD-WAN Cloud Assisted Monitoring	•			
SD-WAN Overlay Controller VPN Service	•			
FortiAnalyzer Cloud	•			
FortiManager Cloud	•			

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.4

FortiGate® 300E Series

FortiGate 300E and 301E

**Next Generation Firewall
Secure SD-WAN
Secure Web Gateway**



The FortiGate 300E series delivers next generation firewall (NGFW) capabilities for mid-sized to large enterprises deployed at the campus or enterprise branch level. Protects against cyber threats with high-powered security processors for optimized network performance, security efficacy and deep visibility. Fortinet’s Security-Driven Networking approach provides tight integration of the network to the new generation of security.

Security

- Identifies thousands of applications inside network traffic for deep inspection and granular policy enforcement
- Protects against malware, exploits, and malicious websites in both encrypted and non-encrypted traffic
- Prevents and detects against known attacks using continuous threat intelligence from AI-powered FortiGuard Labs security services
- Proactively blocks unknown sophisticated attacks in real-time with the Fortinet Security Fabric integrated AI-powered FortiSandbox

Performance

- Engineered for Innovation using Fortinet’s purpose-built security processors (SPU) to deliver the industry’s best threat protection performance and ultra-low latency
- Provides industry-leading performance and protection for SSL encrypted traffic including the first firewall vendor to provide TLS 1.3 deep inspection

Certification

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

Networking

- Application aware routing with in-built SD-WAN capabilities to achieve consistent application performance and the best user experience
- Built-in advanced routing capabilities to deliver high performance with encrypted IPSEC tunnels at scale

Management

- Includes a management console that is effective and simple to use, which provides a comprehensive network of automation & visibility
- Provides Zero Touch Provisioning leveraging Single Pane of Glass Management powered by the Fabric Management Center
- Predefined compliance checklists analyze the deployment and highlight best practices to improve the overall security posture

Security Fabric

- Enables Fortinet and Fabric-ready partners’ products to provide broader visibility, integrated end-to-end detection, threat intelligence sharing, and automated remediation
- 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
32 Gbps	5 Gbps	3.5 Gbps	3 Gbps	Multiple GE RJ45 and GE SFP Slots

Refer to the specifications table for details

Deployment

Next Generation Firewall (NGFW)

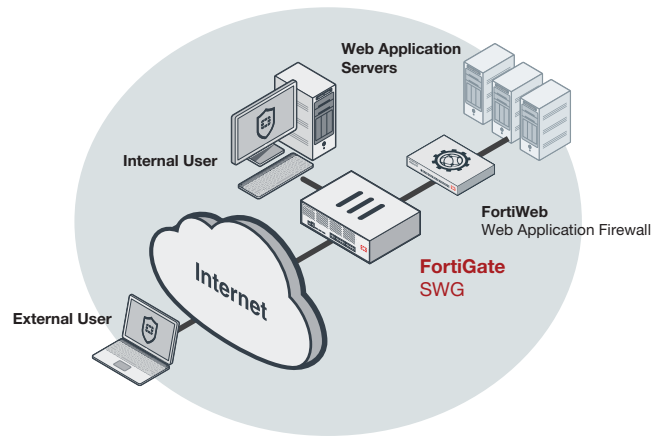
- Reduce the complexity and maximize your ROI by integrating threat protection security capabilities into a single high-performance network security appliance, powered by Fortinet's Security Processing Unit (SPU)
- Full visibility into users, devices, applications across the entire attack surface and consistent security policy enforcement irrespective of asset location
- Protect against network exploitable vulnerabilities with industry-validated IPS that offers low latency and optimized network performance
- Automatically block threats on decrypted traffic using the Industry's highest SSL inspection performance, including the latest TLS 1.3 standard with mandated ciphers
- Proactively block newly discovered sophisticated attacks in real-time with AI-powered FortiGuard Labs and advanced threat protection services included in the Fortinet Security Fabric

Secure SD-WAN

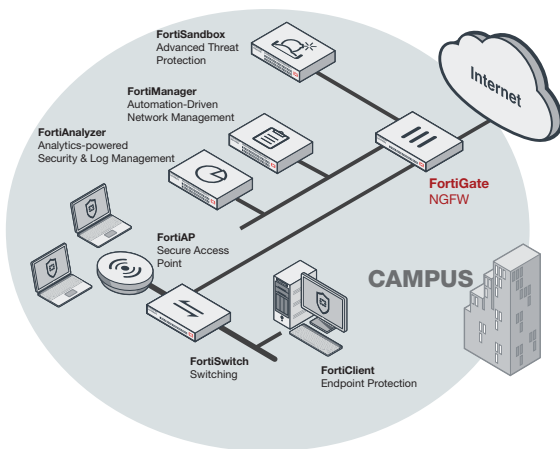
- Consistent business application performance with accurate detection, dynamic WAN path steering and optimization
- Multi-cloud access for faster SaaS adoption with end-to-end optimization
- Simplification with zero touch deployment and centralized management with auto-provisioning, analytics and reporting
- Strong security posture with next generation firewall and real-time threat protection

Secure Web Gateway (SWG)

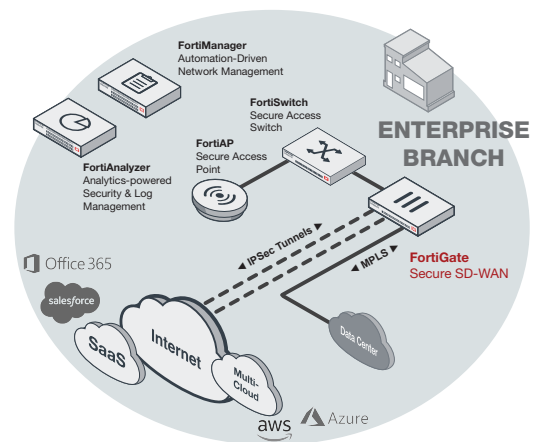
- Secure web access from both internal and external risks, even for encrypted traffic at high performance
- Enhanced user experience with dynamic web and video caching
- Block and control web access based on user or user groups across URL's and domains
- Prevent data loss and discover user activity to known and unknown cloud applications
- Block DNS requests against malicious domains
- Multi-layered advanced protection against zero-day malware threats delivered over the web



FortiGate 300E SWG deployment



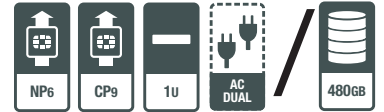
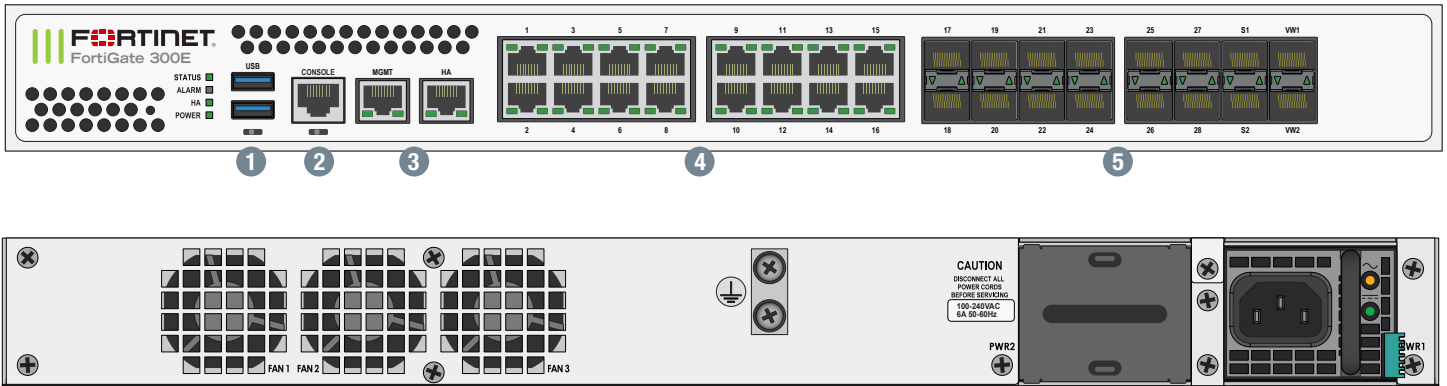
FortiGate 300E deployment in Campus (NGFW)



FortiGate 300E deployment in Enterprise Branch (Secure SD-WAN)

Hardware

FortiGate 300E/301E




Interfaces

- 1. USB Port
- 2. Console Port
- 3. 2x GE RJ45 MGMT/HA Ports

- 4. 16x GE RJ45 Ports
- 5. 16x GE SFP Slots

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

Fortinet's new, breakthrough SPU CP9 content processor works outside of the direct flow of traffic and accelerates the inspection of computationally intensive security features:

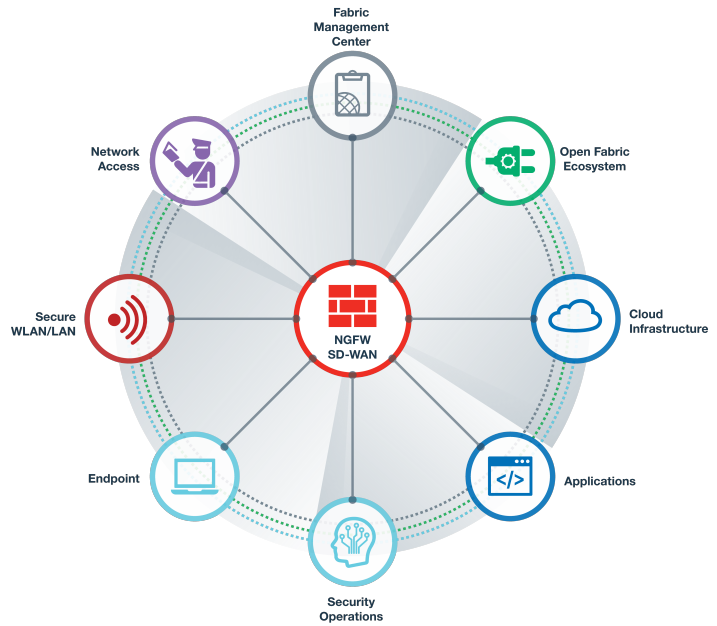
- Enhanced IPS performance with unique capability of full signature matching at ASIC
- SSL Inspection capabilities based on the latest industry mandated cipher suites
- Encryption and decryption offloading

Fortinet Security Fabric

Security Fabric

The Security Fabric is the cybersecurity platform that enables digital innovations. It delivers broad visibility of the entire attack surface to better manage risk. Its unified and integrated solution reduces the complexity of supporting multiple-point products, while automated workflows increase operational speeds and reduce response times across the Fortinet deployment ecosystem. The Fortinet Security Fabric covers the following key areas under a single management center:

- **Security-Driven Networking** that secures, accelerates, and unifies the network and user experience
- **Zero Trust Network Access** that identifies and secures users and devices in real-time, on and off of the network
- **Dynamic Cloud Security** that protects and controls cloud infrastructures and applications
- **AI-Driven Security Operations** that automatically prevents, detects, isolates, and responds to cyber threats



FortiOS

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Specifications

	FORTIGATE 300E	FORTIGATE 301E
Interfaces and Modules		
GE RJ45 Interfaces		16
GE SFP Slots		16
GE RJ45 Management Ports		2
USB Ports		2
RJ45 Console Port		1
Local Storage	–	2x 240 GB SSD
Included Transceivers		2x SFP (SX 1 GE)
System Performance — Enterprise Traffic Mix		
IPS Throughput ²		5 Gbps
NGFW Throughput ^{2,4}		3.5 Gbps
Threat Protection Throughput ^{2,5}		3 Gbps
System Performance and Capacity		
IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP)		32 / 32 / 20 Gbps
IPv6 Firewall Throughput (1518 / 512 / 64 byte, UDP)		32 / 32 / 20 Gbps
Firewall Latency (64 byte, UDP)		3 µs
Firewall Throughput (Packet per Second)		30 Mpps
Concurrent Sessions (TCP)		4 Million
New Sessions/Second (TCP)		300,000
Firewall Policies		10,000
IPsec VPN Throughput (512 byte) ¹		20 Gbps
Gateway-to-Gateway IPsec VPN Tunnels		2,000
Client-to-Gateway IPsec VPN Tunnels		50,000
SSL-VPN Throughput		2.5 Gbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)		5,000
SSL Inspection Throughput (IPS, avg. HTTPS) ³		3.9 Gbps
SSL Inspection CPS (IPS, avg. HTTPS) ³		2,500
SSL Inspection Concurrent Session (IPS, avg. HTTPS) ³		340,000
Application Control Throughput (HTTP 64K) ²		7 Gbps
CAPWAP Throughput (1444 byte, UDP)		5 Gbps
Virtual Domains (Default / Maximum)		10 / 10
Maximum Number of FortiSwitches Supported		72
Maximum Number of FortiAPs (Total / Tunnel)		512 / 256
Maximum Number of FortiTokens		5,000
High Availability Configurations		Active-Active, Active-Passive, Clustering

	FORTIGATE 300E	FORTIGATE 301E
Dimensions and Power		
Height x Width x Length (inches)	1.75 x 17.0 x 15.0	
Height x Width x Length (mm)	44.45 x 432 x 380	
Weight	16.1 lbs (7.3 kg)	16.6 lbs (7.6 kg)
Form Factor (supports EIA / non-EIA standards)	Rack Mount, 1 RU	
Power Consumption (Average / Maximum)	90 W / 173 W	95 W / 180 W
Power Input	100V–240V AC, 50–60Hz	
Current (Maximum)	6A	
Heat Dissipation	570 BTU/h	614 BTU/h
Redundant Power Supplies (Hot Swappable)	optional	
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	48 dBA	
Operating Altitude	Up to 7,400 ft (2,250 m)	
Compliance	FCC Part 15 Class A, RCM, 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 values use an average of HTTPS sessions of different cipher suites.

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 300E	FG-300E	18x GE RJ45 ports (including 1x MGMT port, 1x HA port, 16x switch ports), 16x GE SFP slots, SPU NP6 and CP9 hardware accelerated.
FortiGate 301E	FG-301E	18x GE RJ45 ports (including 1x MGMT port, 1x HA port, 16x switch ports), 16x GE SFP slots, SPU NP6 and CP9 hardware accelerated, 480 GB onboard SSD storage.
Optional Accessories		
1 GE SFP LX Transceiver Module	FN-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP RJ45 Transceiver Module	FN-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP SX Transceiver Module	FN-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.
Optional Power Supply	SP-FG300E-PS	AC power supply for FG-300/301E and FG-500/501E.

Bundles



FortiGuard Bundle

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Bundles	360 Protection	Enterprise Protection	Unified Threat Protection	Threat Protection
FortiCare	ASE ¹	24x7	24x7	24x7
FortiGuard App Control Service	•	•	•	•
FortiGuard IPS Service	•	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•	•
FortiGuard Web Filtering Service	•	•	•	
FortiGuard Antispam Service	•	•	•	
FortiGuard Security Rating Service	•	•		
FortiGuard Industrial Service	•	•		
FortiGuard IoT Detection Service ²	•	•		
FortiConverter Service	•	•		
IPAM Cloud ²	•			
SD-WAN Orchestrator Entitlement ²	•			
SD-WAN Cloud Assisted Monitoring	•			
SD-WAN Overlay Controller VPN Service	•			
FortiAnalyzer Cloud	•			
FortiManager Cloud	•			

1. 24x7 plus Advanced Services Ticket Handling 2. Available when running FortiOS 6.4