

DATA SHEET

FortiGate® 300E Series

FortiGate 300F and 301F

Next Generation Firewall Secure SD-WAN



The FortiGate 300E 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

- 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
- Prevent and detect against known and unknown attacks using continuous threat intelligence from Al powered FortiGuard Labs security services

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, ICSA, Virus Bulletin and AV Comparatives

Networking

- Best of Breed SD-WAN capabilities to enable application steering using WAN path control for high quality of experience
- Delivers extensive routing, switching, wireless controller, high-performance, and scalable IPsec VPN capabilities to consolidate networking and security

Management

- Includes management console that's effective, simple to use, and provides comprehensive network automation & visibility.
- Provides Zero Touch Integration with Security Fabric's Single Pane of Glass Management
- 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 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

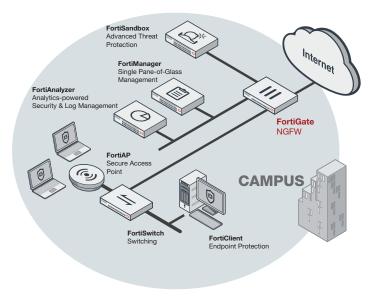
Deployment



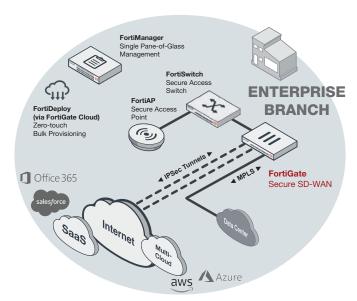
- Reduce complexity by combining threat protection security capabilities into single high-performance network security appliance
- Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual applications in your network traffic
- Delivers industry's highest SSL inspection performance using industry-mandated ciphers while maximizing ROI
- Proactively blocks newly discovered sophisticated attacks in real-time with advanced threat protection



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



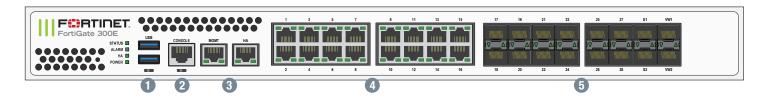
FortiGate 300E deployment in Campus (NGFW)



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

Hardware

FortiGate 300E/301E





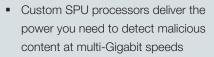


Interfaces

- 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





- 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

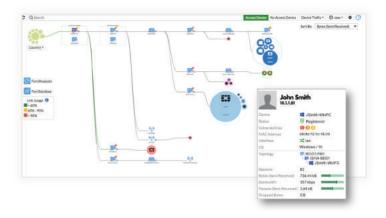
Security Fabric

The Security Fabric delivers broad visibility, integrated Al-driven breach prevention, and automated operations, orchestration, and response across all Fortinet and its ecosystem deployments. It 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. All this is ties together under a single pane of glass management for significantly thereby delivering leading security capabilities across your entire environment while also significantly reducing complexity.

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 security and networking capabilities across the entire FortiGate platform with one intuitive operating system. Reduce complexity, costs, and response time with a truly consolidated next- generation security platform.





- A truly consolidated platform with a single OS and pane-of-glass for all security and networking services across all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance.
 Ability to leverage 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.
- Prevent, detect, and mitigate advanced attacks automatically in minutes with integrated Al-driven breach prevention and advanced threat protection.
- Fulfil your networking needs with extensive routing, switching, and SD-WAN capabilities along with intent-based segmentation.
- Utilize SPU hardware acceleration to boost security capability performance.

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 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	NIL 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	- Joseph de			
IPv4 Firewall Throughput	32 / 32 / 20 Gbps			
(1518 / 512 / 64 byte, UDP)	32 / 32 / 20 dbps			
IPv6 Firewall Throughput	32 / 32 / 20 Gbps			
(1518 / 512 / 64 byte, UDP)				
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	5,000			
(Recommended Maximum, Tunnel Mode)				
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	48			
Maximum Number of FortiAPs (Total / Tunnel)	512 / 256			
Maximum Number of FortiTokens	5,000			
Maximum Number of Registered FortiClients	600			
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 lhs (7.3 km)	16.6 lbs (7.6 kg)		
Form Factor	1 RU			
Power Consumption (Average / Maximum)	90 W / 173 W	95 W / 180 W		
Power Source	100-240V 60-50Hz			
Current (Maximum)	6A			
Heat Dissipation	570 BTU/h			
Redundant Power Supplies (Hot Swappable)	optional			
Operating Environment and Certifications				
Operating Temperature	32-104°F (0-40°C)			
Storage Temperature	-31-158°E (-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, C-Tick, VCCI, CE, UL/cUL, CB			
Certifications	ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; USGv6/IPv6			

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

- 1. IPsec VPN performance test uses AES256-SHA256.
- 2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
- 3. SSL Inspection performance values use an average of HTTPS sessions of different cipher suites.
- 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	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.
Optional Power Supply	SP-FG300E-PS	AC power supply for FG-300/301E and FG-500/501E.

Bundles



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	υтм	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	•	•		
FortiCASB SaaS-only Service	•	•		
FortiConverter Service	•			
SD-WAN Cloud Assisted Monitoring ²	•			
SD-WAN Overlay Controller VPN Service ²	•			
FortiAnalyzer Cloud ²	•			
FortiManager Cloud ²	•			

 ${\it 1.\,24x7\,plus\,Advanced\,Services\,Ticket\,Handling} \qquad {\it 2.\,Available\,when\,running\,FortiOS\,6.2}$



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FST-PROD-DS-GT3H2 FG-300E-DAT-R12-201904