# FortiGate® 300E Series

FortiGate 300E and 301E
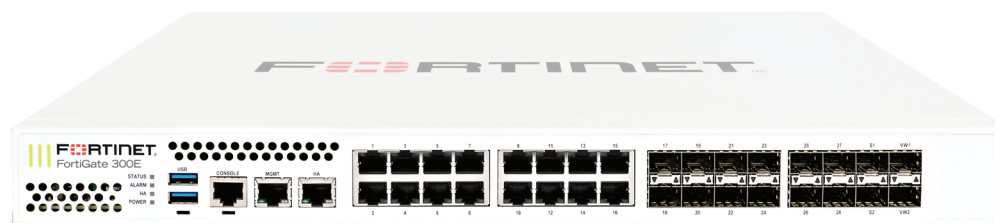
The FortiGate 300E series delivers next generation firewall capabilities for mid-sized to large enterprises, with the flexibility to be deployed at the campus or enterprise branch. Protects against cyber threats with security processor powered high performance, security efficacy and deep visibility.

## Security
- Protects against known exploits, malware and malicious websites using continuous threat intelligence provided by FortiGuard Labs security services
- Identify thousands of applications including cloud applications for deep inspection into network traffic
- Protects against 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, ICSA, Virus Bulletin and AV Comparatives

## Networking
- Delivers 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
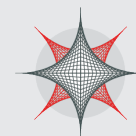
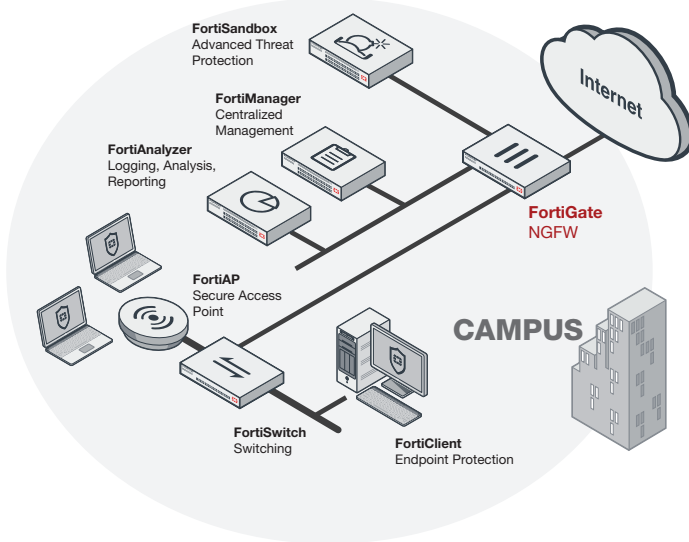| Firewall | IPS | NGFW | Threat Protection | Interfaces |
|----------|-----|------|-------------------|------------|
| 32 Gbps | 5 Gbps | 3.5 Gbps | 3 Gbps | Multiple GE RJ45 and GE SFP Slots |

Refer to specification table for details

**DATA SHEET**

# 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 300E deployment in campus
(NGFW)
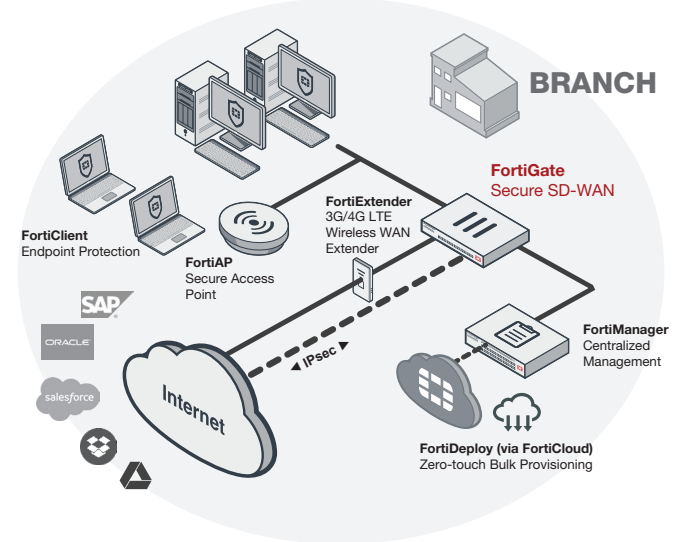
FortiGate 300E deployment in branch office
(Secure SD-WAN)

# HARDWARE

## FortiGate 300E/301E
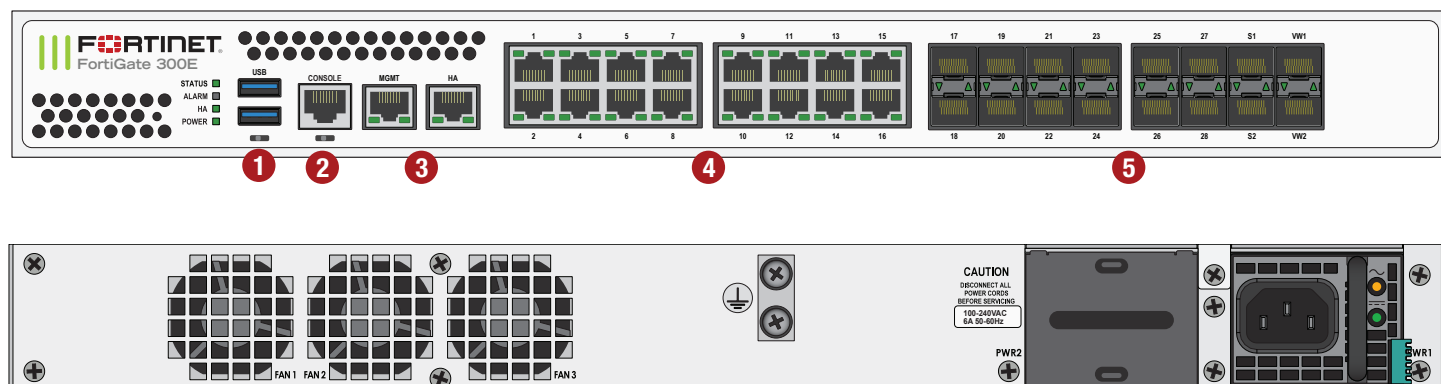


## Interfaces

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

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**

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# 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.
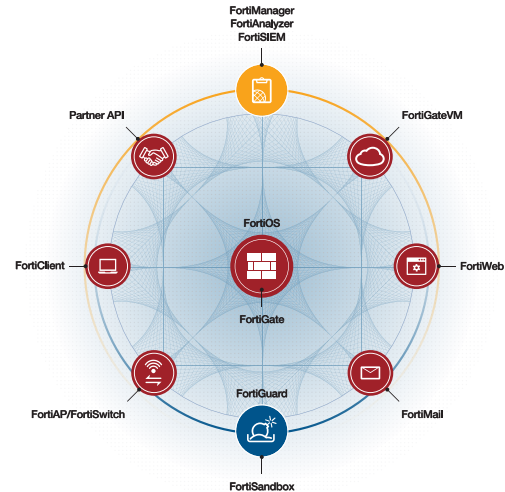
## FortiOS

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.
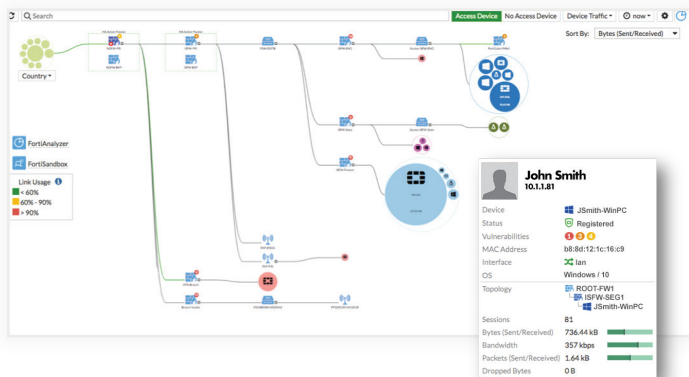
- A truly consolidated platform with one OS for all security and networking services for all FortiGate platforms.
- Industry-leading protection: NSS Labs Recommended, VB100, AV Comparatives, and ICSA validated security and performance.
- Control thousands of applications, block the latest exploits, and 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 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 and Capacity** | | |
| IPv4 Firewall Throughput (1518 / 512 / 64 byte, UDP) | 32 / 32 / 30 Gbps | |
| IPv6 Firewall Throughput (1518 / 512 / 64 byte, UDP) | 32 / 32 / 30 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) | 500 | |
| SSL Inspection Throughput (IPS, HTTP) [3] | 6.8 Gbps | |
| Application Control Throughput (HTTP 64K) [2] | 7 Gbps | |
| CAPWAP Throughput (1444 byte, UDP) | 5 Gbps | |
| Virtual Domains (Default / Maximum) | 10 / 10 | |
| Maximum Number of Switches Supported | 48 | |
| Maximum Number of FortiAPs (Total / Tunnel) | 512 / 256 | |
| Maximum Number of FortiTokens | 1,000 | |
| Maximum Number of Registered Endpoints | 600 | |
| High Availability Configurations | Active-Active, Active-Passive, Clustering | |
| **System Performance — Optimal Traffic Mix** | | |
| IPS Throughput [2] | 11 Gbps | |
| **System Performance — Enterprise Traffic Mix** | | |
| IPS Throughput [2] | 5 Gbps | |
| NGFW Throughput [2, 4] | 3.5 Gbps | |
| Threat Protection Throughput [2, 5] | 3 Gbps | |

| | 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 | 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°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, C-Tick, VCCI, CE, UL/cUL, CB | |
| Certifications | ICSA Labs: Firewall, IPsec, IPS, Antivirus, SSL-VPN; USGv6/IPv6 | |

Note: All performance values are "up to" and vary depending on system configuration.
1. IPsec VPN performance test uses AES256-SHA256.
2. IPS (Enterprise Mix), Application Control, NGFW and Threat Protection are measured with Logging enabled.
3. SSL Inspection performance test uses TLS v1.2 with AES128-SHA256.
4. NGFW performance is measured with Firewall, IPS and Application Control enabled.
5. Threat Protection performance is measured with Firewall, IPS, Application Control and Malware Protection enabled.

# ORDER INFORMATION

| Product | SKU | Description |
|---|---|---|
| FortiGate 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. |

**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 | Threat Protection | UTM | Enterprise Protection |
|---|---|---|---|
| FortiSandbox Cloud (plus FortiGuard CDR* and VOP* service) | | | • |
| FortiGuard Antispam | | • | • |
| FortiGuard Web Filtering | | • | • |
| FortiGuard  Antivirus + Botnet + Mobile AV Service | • | • | • |
| FortiGuard IPS Service | • | • | • |
| FortiCare + FortiGuard App Control Service | • | • | • |

*\* Available when running FortiOS 6.0 and above*

**FORTINET®**

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