The FortiGate 3100D series delivers high performance next generation firewall (NGFW) capabilities for large enterprises and service providers. With multiple high-speed interfaces, high-port density, and high-throughput, ideal deployments are at the enterprise edge, hybrid data center core, and across internal segments. Leverage industry-leading IPS, SSL inspection, and advanced threat protection to optimize your network's performance. 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

<table>
<thead>
<tr>
<th>Firewall</th>
<th>IPS</th>
<th>NGFW</th>
<th>Threat Protection</th>
<th>Interfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 Gbps</td>
<td>22 Gbps</td>
<td>18 Gbps</td>
<td>13 Gbps</td>
<td>Multiple 10 GE SFP+</td>
</tr>
</tbody>
</table>

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 security effectiveness, 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

IPS

- Purpose-built security processors delivering industry validated IPS performance with high throughput and low latency
- Deploy virtual patches at the network level to protect against network exploitable vulnerabilities and optimize network protection time
- Deep packet inspection at wire speeds offers unparalleled threat visibility into network traffic including traffic encrypted with the latest TLS 1.3
- Proactively block newly discovered sophisticated attacks in real-time with advanced threat protection provided by the intelligence services of the Fortinet Security Fabric

Segmentation

- Segmentation that adapts to any network topology, delivering end-to-end security from the branch level to data centers and extending to multiple clouds
- Reduce security risks by improving network visibility from the components of the Fortinet Security Fabric, which adapt access permissions to current levels of trust and enforce access control effectively and efficiently
- Delivers defense in depth security powered by high-performance L7 inspection and remediation by Fortinet’s SPU, while delivering third party validated TCO of per protected Mbps
- Protects critical business applications and helps implement any compliance requirements without network redesigns

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
Hardware

FortiGate 3100D

Interfaces

1. Console Port
2. USB Management Port
3. 2x GE RJ45 Management Ports
4. 32x 10G SFP+/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

The SPU CP8 content processor works outside of the direct flow of traffic, providing high-speed cryptography and content inspection services including:
- Signature-based content inspection acceleration
- Encryption and decryption offloading

10 GE Connectivity for Network Segmentation

High-speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 3100D provides the highest 10 GE port densities in the market, simplifying network designs without relying on additional devices to bridge desired connectivity.
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 ICSA 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

<table>
<thead>
<tr>
<th>Interfaces and Modules</th>
<th>FORTIGATE 3100D</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 GE SFP+ / GE SFP Slots</td>
<td>32</td>
</tr>
<tr>
<td>GE RJ45 Management Port</td>
<td>32</td>
</tr>
<tr>
<td>Console Port</td>
<td>1</td>
</tr>
<tr>
<td>Internal Storage</td>
<td>1x 480 GB SSD</td>
</tr>
<tr>
<td>included Transceivers</td>
<td>2x SFP+ (SR 10 GE)</td>
</tr>
</tbody>
</table>

**System Performance — Enterprise Traffic Mix**

| IPS Throughput | 22 Gbps |
| NISFW Throughput | 18 Gbps |
| Threat Protection Throughput | 13 Gbps |

**System Performance and Capacity**

| Firewall Throughput (1518 / 512 / 64 byte, UDP) | 80 / 80 / 50 Gbps |
| IPS Throughput (1518 / 512 / 64 byte, UDP) | 3 Mpps |
| Firewall Throughput (Packet per Second) | 75 Mpps |
| Concurrent Sessions (TCP) | 400,000 |
| New Sessions/Second (TCP) | 200,000 |
| Firewall Policies | 1,000 |
| IPsec VPN Throughput (512 byte) | 50 Gbps |
| Gateway-to-Gateway IPsec VPN Tunnels | 40,000 |
| Client-to-Gateway IPsec VPN Tunnels | 40,000 |
| SSL-VPN Throughput | 8 Gbps |
| Concurrent SSL-VPN Users | 30,000 |
| (Recommended Maximum, Tunnel Mode) | |
| SSL Inspection Throughput (IPS, avg. HTTPS) | 12 Gbps |
| SSL Inspection CPS (IPS, avg. HTTPS) | 10,000 |
| SSL Inspection Concurrent Session | 3.5 Million |
| Application Control Throughput (HTTP 64K) | 40 Gbps |
| CAPWAP Throughput (1444 byte, UDP) | 22 Gbps |
| Virtual Domain | 10,500 |
| Maximum Number of FortiSwitches Supported | 256 |
| Maximum Number of FortiTokens | 20,000 |
| High Availability Configurations | Active/Active, Active/Passive, Clustering |

**Dimensions and Power**

| Height x Width x Length (inches) | 3.5 x 17.4 x 21.9 |
| Height x Width x Length (mm) | 88 x 442 x 555 |
| Weight | 37.69 lbs (17.1 kg) |
| Fan Size | Yes, Hot Swappable |

**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 | 50 dBA |
| Operating Altitude | Up to 7,400 ft (2,250 m) |
| Compliances | FCC Part 15 Class A, RCM, VCCI, CE, UL/ULC, 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, NISFW, 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 3100D | FG-3100D | 32x 10GE SFP+ slots 10G ports (2 SFP+ SR-type transceivers included), SPU NP6 and CP8 hardware accelerated, 480 GB SSD internal storage, and dual AC power supplies.

Optional Accessories

**Rack Mount Sliding Rails**

**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.

**360 Protection**

FortiCare

FortiGuard App Control Service

FortiGuard IPS Service

FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDP, Virus Outbreak Protection and FortiSandbox Cloud Service

FortiGuard Web Filtering Service

FortiGuard Anti-Spam Service

FortiGuard Security Rating Service

FortiGuard Industrial Service

FortiGuard 101 Detection Service

FortiConverter Service

IPAM Cloud

SD-WAN Orchestrator Entitlement

SD-WAN Cloud Assisted Monitoring

SD-WAN Overlay Controller VPN Service

FortiAnalyzer Cloud

FortiManager Cloud

**Enterprise Protection**

24x7

24x7

24x7

24x7

24x7

24x7

1. 24x7 plus Advanced Services Ticket Handling

2. Available when running FortiOS 6.4