The FortiGate 800D series provides an application-centric, scalable and secure SD-WAN solution with next generation firewall (NGFW) capabilities for mid-sized to large enterprises deployed at the campus or enterprise branch level. 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
- Prevent and detect against known and unknown attacks using continuous threat intelligence from AI-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 for best-in-class security effectiveness and performance
- Received unparalleled third-party certifications from NSS Labs

### Networking
- Delivers advanced networking capabilities that seamlessly integrate with advanced layer 7 security and virtual domains (VDOMs) to offer extensive deployment flexibility, multi-tenancy and effective utilization of resources
- Delivers high-density, flexible combination of various high-speed interfaces to enable best TCO for customers for data center and WAN deployments

### Management
- Includes a management console that is effective, simple to use, and provides comprehensive network automation and visibility
- Provides Zero Touch Integration with Fortinet’s 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

### Firewall | IPS | NGFW | Threat Protection | Interfaces
---|---|---|---|---
36 Gbps | 4.2 Gbps | 4 Gbps | 3 Gbps | Multiple GE RJ45, GE SFP, 10 GE SFP+ slots, and bypass GE RJ45 pairs
**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 on any best-performing WAN transport
- Accelerated Multi-cloud access for faster SaaS adoption with cloud-on-ramp
- Self-healing networks with WAN edge high availability, sub-second traffic switchover-based and real-time bandwidth compute-based traffic steering
- Automated Overlay tunnels provides encryption and abstracts physical hybrid WAN making it simple to manage.
- Simplified and intuitive workflow with SD-WAN Orchestrator for management and zero touch deployment
- Enhanced analytics both real-time and historical provides visibility into network performance and identify anomalies
- 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

**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
HARDWARE

FortiGate 800D

Interfaces
1. USB Ports
2. Console Port
3. 2x GE RJ45 Management Ports
4. 2x Bypass GE RJ45 Pairs
5. 20x GE RJ45 Ports
6. 8x GE SFP Slots
7. 2x 10 GE SFP+ Slots

Hardware Features

Powered by SPU
- Fortinet’s 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
- VPN, CAPWAP and IP tunnel acceleration
- Anomaly-based intrusion prevention, checksum offload, and packet defragmentation
- Traffic shaping and priority queuing

Content Processor
Fortinet’s ninth generation custom SPU CP9 content processor works outside of the direct flow of traffic and accelerates the inspection.

High-Speed Connectivity
High-speed connectivity is essential for network security segmentation. The FortiGate 800D provides 10 GE slots that simplify network designs without relying on additional devices to bridge desired connectivity.
FORTINET SECURITY FABRIC

Security Fabric
The industry's highest-performing cybersecurity platform, powered by FortiOS, with a rich ecosystem designed to span the extended digital attack surface, delivering fully automated, self-healing network security.

- **Broad**: Coordinated detection and enforcement across the entire digital attack surface and lifecycle with converged networking and security across edges, clouds, endpoints and users
- **Integrated**: Integrated and unified security, operation, and performance across different technologies, location, deployment options, and the richest Ecosystem
- **Automated**: Context aware, self-healing network & security posture leveraging cloud-scale and advanced AI to automatically deliver near-real-time, user-to-application coordinated protection across the Fabric

The Fabric empowers organizations of any size to secure and simplify their hybrid infrastructure on the journey to digital innovation.

**FortiOS™ Operating System**
FortiOS, Fortinet’s leading operating system enable the convergence of high performing networking and security across the Fortinet Security Fabric delivering consistent and context-aware security posture across network endpoint, and clouds. The organically built best of breed capabilities and unified approach allows organizations to run their businesses without compromising performance or protection, supports seamless scalability, and simplifies innovation consumption.

The release of FortiOS 7 dramatically expands the Fortinet Security Fabric’s ability to deliver consistent security across hybrid deployment models consisting on appliances, software and As-a-Service with SASE, ZTNA and other emerging cybersecurity solutions.

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™ Services**
Fortinet is dedicated to helping our customers succeed, and every year FortiCare services help thousands of organizations get the most from their Fortinet Security Fabric solution. We have more than 1,000 experts to help accelerate technology implementation, provide reliable assistance through advanced support, and offer proactive care to maximize security and performance of Fortinet deployments.
## SPECIFICATIONS

### FORTIGATE 800D

#### Interfaces and Modules
- **Hardware Accelerated 10 GE SFP+ Slots**: 2
- **Hardware Accelerated GE SFP Slots**: 8
- **Hardware Accelerated GE RJ45 Ports**: 20
- **Accelerated GE RJ45 Bypass Interfaces**: 4
- **GE RJ45 Management / HA Ports**: 2
- **USB Ports (Client / Server)**: 1 / 2
- **Console Port**: 1
- ** Included Transceivers**: 2x SFP (SX 1 GE)

#### System Performance — Enterprise Traffic Mix
- **IPS Throughput**: 4.2 Gbps
- **NGFW Throughput**: 4 Gbps
- **Threat Protection Throughput**: 3 Gbps

#### System Performance and Capacity
- **IPv4 Firewall Throughput** *(1518 / 512 / 64 byte, UDP)*: 36 / 36 / 22 Gbps
- **IPv6 Firewall Throughput** *(1518 / 512 / 86 byte, UDP)*: 36 / 36 / 22 Gbps
- **Firewall Latency** *(64 byte, UDP)*: 3 μs
- **Firewall Throughput (Packet per Second)**: 33 Gpps
- **Concurrent Sessions (TCP)**: 5 Million
- **New Sessions/Second (TCP)**: 280,000
- **Firewall Policies**: 10,000
- **IPsec VPN Throughput** *(512 byte)*: 20 Gbps
- **Gateway-to-Gateway IPsec VPN Tunnels**: 2,000
- **Client-to-Gateway IPsec VPN Tunnels**: 50,000
- **SSL-VPN Throughput**: 2.2 Gbps
- **Concurrent SSL-VPN Users** *(Recommended Maximum, Tunnel Mode)*: 5,000
- **SSL Inspection Throughput** *(IPS, avg. HTTPS)*: 3.9 Gbps
- **SSL Inspection CPS (IPS, avg. HTTPS)**: 2,400
- **SSL Inspection Concurrent Session** *(IPS, avg. HTTPS)*: 380,000
- **Application Control Throughput** *(HTTP 64K)*: 9 Gbps
- **CAPWAP Throughput** *(1444 byte, UDP)*: 5.5 Gbps
- **Virtual Domains** *(Default / Maximum)*: 10 / 10
- **Maximum Number of FortiSwitches Supported**: 64
- **Maximum Number of FortiAPs (Total / Tunnel)**: 1024 / 512
- **Maximum Number of FortiTokens**: 5,000

#### Dimensions and Power
- **Height x Width x Length** *(inches)*: 1.75 x 17.0 x 16.4
- **Height x Width x Length** *(mm)*: 44.45 x 432 x 416
- **Weight**: 19.0 lbs (8.6 kg)
- **Form Factor (supports EIA / non-EIA standards)**: Rack Mount, 1 RU
- **Wall Mountable**: No
- **Power Input**: 100–240V AC, 50/60 Hz
- **Power Consumption** *(Average / Maximum)*: 110V/7A, 220V/3.5A
- **Heat Dissipation**: 636 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**: 55 dBA
- **Forced Airflow**: Side to Back
- **Compliance**: FCC Part 15 Class A, RCM, VCCI, CE, UL/ cUL, CB
- **Certifications**: ICSA Labs: Firewall, IPS, Antivirus, SSL-VPN; USGv6/IPv6

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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.
## ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Product</th>
<th>SKU</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>FortiGate 800D</td>
<td>FG-8000</td>
<td>22x GE RJ45 ports, 4x GE RJ45 with Bypass Protection, 8x GE SFP slots, 2x 10 GE SFP+ slots, SPU NP6 and CP8 hardware accelerated, 240 GB internal onboard SSD storage.</td>
</tr>
</tbody>
</table>

### Optional Accessories

<table>
<thead>
<tr>
<th>SKU</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>1 GE SFP LX Transceiver Module</strong></td>
<td>FN-TRAN-LX</td>
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<tr>
<td><strong>1 GE SFP RJ45 Transceiver Module</strong></td>
<td>FN-TRAN-RJ45</td>
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<tr>
<td><strong>1 GE SFP SX Transceiver Module</strong></td>
<td>FN-TRAN-SX</td>
</tr>
<tr>
<td><strong>10 GE SFP+ RJ45 Transceiver Module</strong></td>
<td>FN-TRAN-SFP+RJ45</td>
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<tr>
<td><strong>10 GE SFP+ Transceiver Module, Short Range</strong></td>
<td>FN-TRAN-SFP+SR</td>
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<tr>
<td><strong>10 GE SFP+ Transceiver Module, Extended Range</strong></td>
<td>FN-TRAN-SFP+ER</td>
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<tr>
<td><strong>AC Power Supply</strong></td>
<td>SP-FG600C-PS</td>
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### Bundles

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<th>Enterprise Protection</th>
<th>Unified Threat Protection</th>
<th>Advanced Threat Protection</th>
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<tr>
<td>FortiCare</td>
<td>A5E</td>
<td>24x7</td>
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<td>FortiGuard App Control Service</td>
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<td>FortiGuard Industrial Service</td>
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<td>FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service</td>
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<td>SD-WAN Orchestrator Entitlement</td>
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<td>SD-WAN Overlay Controller VPN Service</td>
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<td>Fortinet SDCaaS</td>
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<td>FortiAnalyzer Cloud</td>
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<tr>
<td>AC Power Supply</td>
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1. 24x7 plus Advanced Services Ticket Handling  
2. Available when running FortiOS 7.0  

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