



FortiGate® 3800D Series
 Next Generation Firewall
 Internal Segmentation Firewall
 Data Center Firewall
 Carrier-Class Firewall



FortiGate 3800D Series

FortiGate 3800D, 3800D-DC, 3810D, 3810D-DC, 3815D and 3815D-DC

The Fortinet Enterprise Firewall Solution

The Fortinet Enterprise Firewall Solution delivers end-to-end network security with one platform, one network security operating system and unified policy management with a single pane of glass — for the industry’s best protection against the most advanced security threats and targeted attacks.

One Enterprise Firewall Solution across the Extended Enterprise

The FortiGate family of network appliances represents the industry’s broadest range of enterprise firewall platforms. FortiGate is based on FortiASIC, a purpose-built integrated architecture that provides extremely high throughput and exceptionally low latency, while delivering industry-leading security effectiveness and consolidation which is routinely validated by independent real-world tests. Targeted at high speed data centers and large enterprises, the FortiGate 3800D series delivers high NGFW and Intrusion Prevention (IPS) performance along with high port density and dual power supply for maximum flexibility.

Highlights

| | Firewall | IPS | NGFW | Threat Protection | Interfaces |
|----------|------------------------|---------|---------|-------------------|--|
| | Enterprise Traffic Mix | | | | |
| FG-3800D | 320 Gbps | 21 Gbps | 17 Gbps | 12 Gbps | Multiple 100 GE CFP2, 40 GE QSFP+, 10 GE SFP+ and GE RJ45 Management |
| FG-3810D | 320 Gbps | 21 Gbps | 17 Gbps | 12 Gbps | Multiple 100 GE CFP2 and GE RJ45 Management |
| FG-3815D | 320 Gbps | 21 Gbps | 17 Gbps | 12 Gbps | Multiple 100 GE CFP2, 10 GE SFP+ and GE RJ45 Management |

Validated Security

One Network OS

Performance

Single Pane of Glass

Universal Platform Support



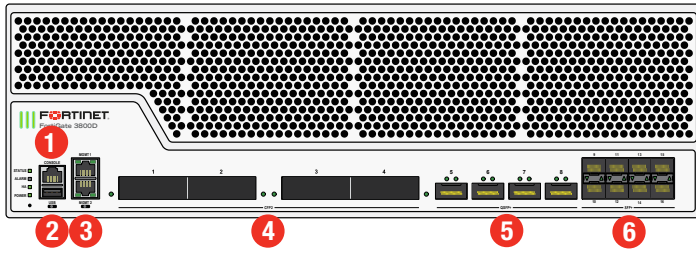
FortiGate appliances, interconnected with the Fortinet Security Fabric, form the backbone of the Fortinet Enterprise Solution

forti.net/sf



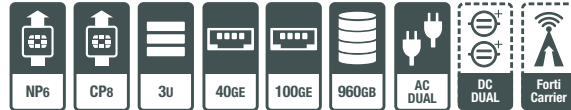
HARDWARE

FortiGate 3800D/-DC

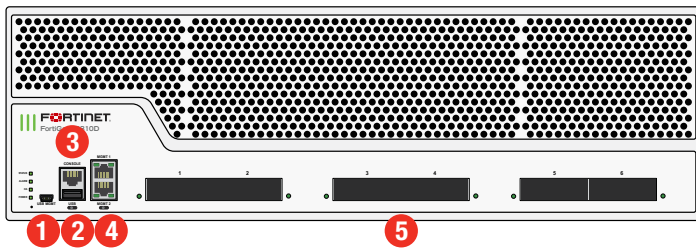


Interfaces

- | | |
|--------------------------------|-------------------------------|
| 1. Console Port | 4. 4x 100 GE CFP2 Slots |
| 2. USB Port | 5. 4x 40 GE QSFP+ Slots |
| 3. 2x GE RJ45 Management Ports | 6. 8x 10 GE SFP+/GE SFP Slots |

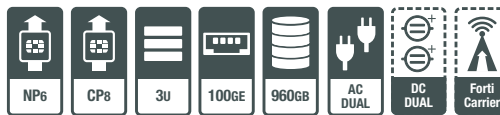


FortiGate 3810D/-DC

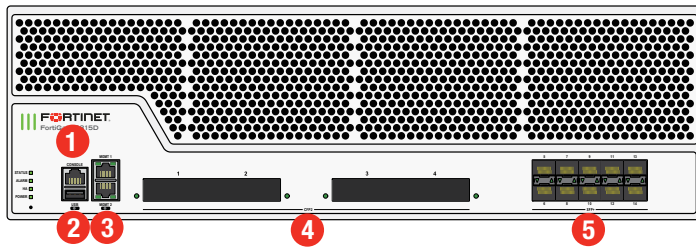


Interfaces

- | | |
|------------------------|--------------------------------|
| 1. USB Management Port | 4. 2x GE RJ45 Management Ports |
| 2. USB Port | 5. 6x 100 GE CFP2 Slots |
| 3. Console Port | |



FortiGate 3815D/-DC



Interfaces

- | | |
|--------------------------------|-------------------------|
| 1. Console Port | 4. 4x 100 GE CFP2 Slots |
| 2. USB Port | 5. 10x 10 GE SFP+ Slots |
| 3. 2x GE RJ45 Management Ports | |



Powered by FortiASICs

- Custom FortiASIC™ 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
- FortiASIC 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 FortiASIC 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 FortiASIC 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

High Speed Connectivity for Core Infrastructure

High speed connectivity is essential for network security segmentation at the core of data networks. For example, the 3810D provides 100 GE interfaces, simplifying network designs without relying on additional devices to bridge desired connectivity.

SOFTWARE

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.
- Detect, contain and block advanced attacks automatically in minutes with integrated advanced threat protection framework.
- Solve your networking needs with extensive routing, switching, WiFi, LAN and WAN capabilities.
- Activate all the ASIC-boosted capabilities you need on the fastest firewall platform available.



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, other network and security vendors, as well as law enforcement agencies:

- **Real-time Updates** — 24x7x365 Global Operations research security intelligence, distributed via Fortinet Distributed Network to all Fortinet platforms.
- **Security Research** — FortiGuard Labs have discovered over 170 unique zero-day vulnerabilities to date, totaling millions of automated signature updates monthly.
- **Validated Security Intelligence** — Based on FortiGuard intelligence, Fortinet's network security platform is tested and validated by the world's leading third-party testing labs and customers globally.

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:

- **Enhanced Support** — For customers who need support during local business hours only.
- **Comprehensive Support** — For customers who need around-the-clock mission critical support, including advanced exchange hardware replacement.
- **Advanced Services** — For global or regional customers who need an assigned Technical Account Manager, enhanced service level agreements, extended software support, priority escalation, on-site visits and more.
- **Professional Services** — For customers with more complex security implementations that require architecture and design services, implementation and deployment services, operational services and more.



Enterprise 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 the FortiGuard Enterprise Bundle. This bundle contains the full set of FortiGuard security services plus FortiCare service and support offering the most flexibility and broadest range of protection all in one package.

SPECIFICATIONS

| | FG-3800D and 3800D-DC | FG-3810D and 3810D-DC | FG-3815D and 3815D-DC |
|---|---|-----------------------|-----------------------|
| Interfaces and Modules | | | |
| 100 GE CFP2 Slots | 4 | 6 | 4 |
| 40 GE QSFP+ Slots | 4 | — | — |
| 10 GE SFP+ Slots | 8 (supports GE SFP as well) | — | 10 |
| GE RJ45 Management Ports | 2 | 2 | 2 |
| USB Ports | 1 | 1 | 1 |
| Console Port | 1 | 1 | 1 |
| Internal Storage | 960 GB | 960 GB | 960 GB |
| Included Transceivers | 2x SFP+ (SR 10 GE) | NIL | 2x SFP+ (SR 10 GE) |
| System Performance and Capacity | | | |
| Firewall Throughput (1518 / 512 / 64 byte, UDP) | 320 / 300 / 150 Gbps | | |
| Firewall Latency (64 byte, UDP) | 5 µs | | |
| Firewall Throughput (Packet per Second) | 262.5 Mpps | | |
| Concurrent Sessions (TCP) | 95 Million | | |
| New Sessions/Sec (TCP) | 480,000 | | |
| Firewall Policies | 200,000 | | |
| IPsec VPN Throughput (512 byte) | 135 Gbps | | |
| Gateway-to-Gateway IPsec VPN Tunnels | 40,000 | | |
| Client-to-Gateway IPsec VPN Tunnels | 64,000 | | |
| SSL-VPN Throughput | 10 Gbps | | |
| Concurrent SSL-VPN Users (Recommended Maximum) | 30,000 | | |
| IPS Throughput (HTTP / Enterprise Mix) ¹ | 75 / 21 Gbps | | |
| SSL Inspection Throughput ² | 23 Gbps | | |
| Application Control Throughput ³ | 44 Gbps | | |
| NGFW Throughput ⁴ | 17 Gbps | | |
| Threat Protection Throughput ⁵ | 12 Gbps | | |
| CAPWAP Throughput ⁶ | 22 Gbps | | |
| Virtual Domains (Default / Maximum) | 10 / 500 | | |
| Maximum Number of FortiAPs (Total / Tunnel Mode) | 4,096 / 1,024 | | |
| Maximum Number of FortiTokens | 5,000 | | |
| Maximum Number of Registered FortiClients | 20,000 | | |
| High Availability Configurations | Active / Active, Active / Passive, Clustering | | |
| Dimensions and Power | | | |
| Height x Width x Length (inches) | 5.2 x 17.4 x 26.5 | 5.2 x 17.4 x 26.5 | 5.2 x 17.4 x 26.5 |
| Height x Width x Length (mm) | 133 x 442 x 673 | 133 x 442 x 673 | 133 x 442 x 673 |
| Weight | 51 lbs (23.0 kg) | 59 lbs (26.8 kg) | 59 lbs (26.8 kg) |
| Form Factor | 3 RU | 3 RU | 3 RU |
| AC Power Supply | 100–240V AC, 60–50 Hz | 100–240V AC, 50–60 Hz | 100–240V AC, 60–50 Hz |
| DC Power Supply | 48–72V DC | 48–72V DC | 48–72V DC |
| Power Consumption (Average / Maximum) | 536 / 768 W | 832 / 1100 W | 829 / 1100 W |
| Current (Maximum) | 12A@100V, 5A@240V | 12A@100V, 5A@240V | 12A@100V, 5A@240V |
| Heat Dissipation | 2621 BTU/h | 3754 BTU/h | 3754 BTU/h |
| Redundant Power Supplies | Yes, Hot Swappable | Yes, Hot Swappable | Yes, Hot Swappable |
| Operating Environment and Certifications | | | |
| Operating Temperature | 32–104°F (0–40°C) | | |
| Storage Temperature | -31–158°F (-35–70°C) | | |
| Humidity | 20–90% non-condensing | | |
| 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. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1. 1. IPS performance is measured using 1 Mbyte HTTP and Enterprise Traffic Mix. 2. SSL Inspection is measured with IPS enabled and HTTP traffic, using TLS v1.2 with AES256-SHA. 3. Application Control performance is measured with 64 Kbytes HTTP traffic. 4. NGFW performance is measured with IPS and Application Control enabled, based on Enterprise Traffic Mix. 5. Threat Protection performance is measured with IPS and Application Control and Malware protection enabled, based on Enterprise Traffic Mix. 6. CAPWAP performance is based on 1444 byte UDP packets.

For complete, up-to-date and detailed feature set, please refer to the Administration Handbook and FortiOS Datasheet.

ORDER INFORMATION

| Product | SKU | Description |
|--|--------------------|--|
| FortiGate 3800D | FG-3800D | 4x 100 GE CFP2 slots, 4x 40 GE QSFP+ slots, 8x 10 GE SFP+ slots, 2x GE RJ45 Management ports, FortiASIC NP6 and CP8 hardware accelerated, 960 GB onboard storage, and dual AC power supplies. |
| FortiGate 3800D-DC | FG-3800D-DC | 4x 100 GE CFP2 slots, 4x 40 GE QSFP+ slots, 8x 10 GE SFP+ slots, 2x GE RJ45 Management ports, FortiASIC NP6 and CP8 hardware accelerated, 960 GB onboard storage, and dual DC power supplies. |
| FortiGate 3810D | FG-3810D | 6x 100 GE LR4/SR10 CFP2 slots, 2x GE RJ45 Management ports, FortiASIC NP6 and CP8 hardware accelerated, 960 GB SSD onboard storage, dual AC power supplies. |
| FortiGate 3810D-DC | FG-3810D-DC | 6x 100 GE LR4/SR10 CFP2 slots, 2x GE RJ45 Management ports, FortiASIC NP6 and CP8 hardware accelerated, 960 GB SSD onboard storage, dual DC power supplies. |
| FortiGate 3815D | FG-3815D | 4x 100 GE LR4/SR10 CFP2 slots, 10x 10 GE SFP+ slots, 2x GE RJ45 Management ports, FortiASIC NP6 and CP8 hardware accelerated, 960 GB SSD onboard storage, and dual AC power supplies. |
| FortiGate 3815D-DC | FG-3815D-DC | 4x 100 GE LR4/SR10 CFP2 slots, 10x 10 GE SFP+ slots, 2x GE RJ45 Management ports, FortiASIC NP6 and CP8 hardware accelerated, 960 GB SSD onboard storage, and dual DC power supplies. |
| Optional Accessories | | |
| 100 GE CFP2 Transceivers, Short Range | FG-TRAN-CFP2-SR10 | 100 GE CFP2 transceivers, 10 channel parallel fiber, short range for all systems with CFP2 slots. |
| 100 GE CFP2 Transceivers, Long Range | FG-TRAN-CFP2-LR4 | 100 GE CFP2 transceivers, long range, over single mode fiber, for all systems with CFP2 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. |
| 10 GE SFP+ Transceiver Module, Long Range | FG-TRAN-SFP+LR | 10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots. |
| 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. |
| 100 GE SR10 to 10x 10 GE Fan Out Cable | FG-CABLE-SR10-SFP+ | 100 GE SR10 to 10x 10 GE SFP+ 1M fan out cable. |
| AC Power Supply | SP-FG3800D-PS | AC power supply for FG-3700D, FG-3700D-NEBS, FG-3700DX, FG-3810D and FG-3815D. |
| DC Power Supply | SP-FG3800D-DC-PS | DC power supply for FG-3700D-DC, FG-3700D-DC-NEBS, FG-3810D-DC, FG-3815D-DC. |
| Rack Mount Sliding Rails | SP-FG3040B-RAIL | Rack mount sliding rails for FG-1000C/-DC, FG-1200D, FG-1500D/DC, FG-3040B/-DC, FG-3140B/-DC, FG-3240C/-DC, FG-3000D/-DC, FG-3100D/-DC, FG-3200D/-DC, FG-3700D/-DC, FG-3700DX, FG-3810D/-DC and FG-3950B/-D. |



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