



## FortiGate® 3700D

Next Generation Firewall  
Internal Segmentation Firewall  
Data Center Firewall  
Carrier-Class Firewall



# FortiGate 3700D

FortiGate 3700D, 3700D-NEBS, 3700D-DC and 3700D-DC-NEBS

### 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 3700D 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-3700D	160 Gbps	22 Gbps	14 Gbps	12 Gbps	Multiple 40 GE QSFP+, 10 GE SFP+, GE SFP and GE RJ45



Validated Security



One Network OS



Performance



Single Pane of Glass



Universal Platform Support



**FORTINET  
SECURITY  
FABRIC**

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

[forti.net/sf](https://forti.net/sf)



Security Fabric Extensions



FortiAP  
[forti.net/fap](https://forti.net/fap)



FortiClient  
[forti.net/fct](https://forti.net/fct)



FortiToken  
[forti.net/ftk](https://forti.net/ftk)

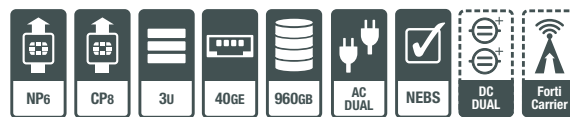
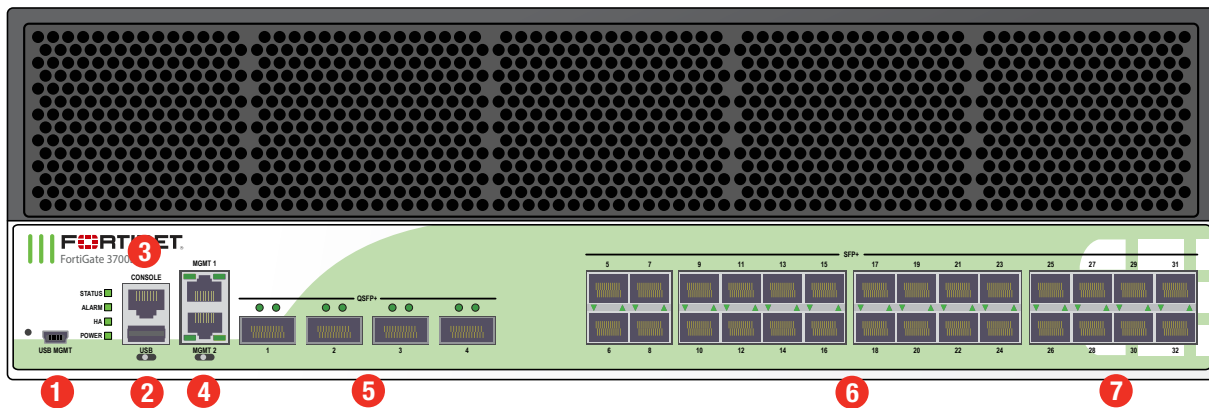


FortiSwitch  
[forti.net/fsw](https://forti.net/fsw)



FortiSandbox  
[forti.net/fsa](https://forti.net/fsa)

# HARDWARE



## Interfaces

1. USB Management Port
2. USB Port
3. Console Port
4. 2x GE RJ45 Management Ports
5. 4x 40 GE QSFP Slots

6. 20x 10 GE SFP+ / GE SFP Slots
7. 8x 10 GE SFP+ Slots (Ultra-low latency)



## 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

## 40 GE Connectivity for Core Infrastructure

High speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate 3700D provides one of the highest 40 GE and 10 GE port densities in the market, 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 ICISA 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-booster capabilities you need on the fastest firewall platform available.



For more information, please refer to the FortiOS data sheet available at [www.fortinet.com](http://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

FORTIGATE 3700D	
<b>Interfaces and Modules</b>	
40 GE QSFP Slots	4
10 GE SFP+ / GE SFP Slots	20
10 GE SFP+ Slots (Ultra-low Latency)	8
GE RJ45 Management Ports	2
USB Ports (Client / Server)	1 / 1
Console Port	1
Internal Storage	960 GB
Included Transceivers	2x SFP+ (SR 10GE)
<b>System Performance and Capacity</b>	
Firewall Throughput (1518 / 512 / 64 byte, UDP)	160 / 160 / 110 Gbps
IPv6 Firewall Throughput (1518 / 512 / 86 byte, UDP)	160 / 160 / 110 Gbps
Firewall Latency (64 byte, UDP)	2 µs
Firewall Throughput (Packet per Second)	165 Mpps
Concurrent Sessions (TCP)	50 Million
New Sessions/Second (TCP)	400,000
Firewall Policies	200,000
IPsec VPN Throughput (512 byte)	100 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) <sup>1</sup>	57 / 22 Gbps
SSL Inspection Throughput <sup>2</sup>	24 Gbps
Application Control Throughput <sup>3</sup>	36 Gbps
NGFW Throughput <sup>4</sup>	14 Gbps
Threat Protection Throughput <sup>5</sup>	12 Gbps
CAPWAP Throughput <sup>6</sup>	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

FORTIGATE 3700D	
<b>Dimensions and Power</b>	
Height x Width x Length (inches)	5.25 x 17.2 x 22.8
Height x Width x Length (mm)	133 x 437 x 579
Weight	46.9 lbs (21.3 kg)
Form Factor	3 RU
AC Power Supply	100–240V AC, 50–60 Hz
DC Power Supply (FG-3700D-DC)	48–72V DC
Power Consumption (Average / Maximum)	725 / 870 W
Heat Dissipation	2,970 BTU/h
Redundant Power Supplies	Yes, Hot Swappable
<b>Operating Environment and Certifications</b>	
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 3700D	FG-3700D	4x 40 GE QSFP+ slots, 28x 10 GE SFP+ slots, 2x GE RJ45 Management, FortiASIC NP6 and CP8 hardware accelerated, 960 GB onboard storage, and dual AC power supplies.
FortiGate-3700D-NEBS	FG-3700D-NEBS	4x 40 GE QSFP+ slots, 28x 10 GE SFP+ slots, 2x GE RJ45 Management, FortiASIC NP6 and CP8 hardware accelerated, 960 GB onboard storage, and dual AC power supplies, NEBS certified.
FortiGate 3700D-DC	FG-3700D-DC	4x 40 GE QSFP+ slots, 28x 10 GE SFP+ slots, 2x GE RJ45 Management, FortiASIC NP6 and CP8 hardware accelerated, 960 GB onboard storage, and dual DC power supplies.
FortiGate 3700D-DC-NEBS	FG-3700D-DC-NEBS	4x 40 GE QSFP+ slots, 28x 10 GE SFP+ slots, 2x GE RJ45 Management, FortiASIC NP6 and CP8 hardware accelerated, 960 GB onboard storage, and dual DC power supplies, NEBS certified.
<b>Optional Accessories</b>		
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/-DC.
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.
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.
40 GE QSFP+ Transceivers, Short Range	FG-TRAN-QSFP+SR	40 GE QSFP+ transceivers, short range for all systems with QSFP+ slots.
40 GE QSFP+ Transceivers, Long Range	FG-TRAN-QSFP+LR	40 GE QSFP+ transceivers, long range for all systems with QSFP+ slots.
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.



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