FORTINET

FortiGate® 3700D

FortiGate 3700D, 3700D-NEBS, 3700D-DC and 3700D-DC-NEBS
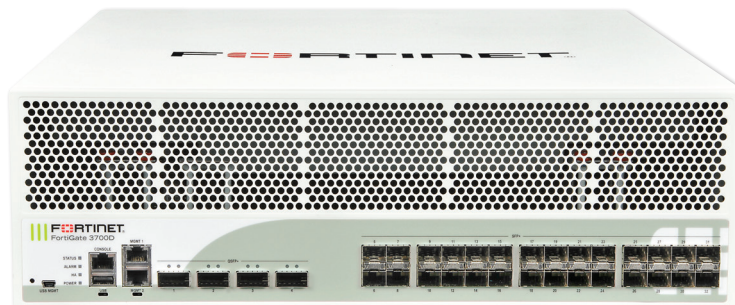
The FortiGate 3700D series delivers high performance threat protection for mid-sized to large enterprises and service providers, with the flexibility to be deployed at the Internet or cloud edge, in the data center core or internal segments. The multiple high-speed interfaces, high port density, industry-leading security efficacy and high throughput of the 3700D series keeps your network connected and secure.

Security
- Protects against known exploits, malware and malicious websites using continuous threat intelligence provided by FortiGuard Labs security services
- 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, high-speed interfaces, and high performance VPN capabilities to address performance and connectivity needs of large-scale data center and cloud applications
- Enables flexible deployment modes that fit into organizations' evolving network infrastructure

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
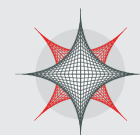
Firewall	IPS	NGFW	Threat Protection	Interfaces
160 Gbps	**28 Gbps**	**20 Gbps**	**13 Gbps**	Multiple 40 GE QSFP+, 10 GE SFP+ and GE SFP

Refer to specification table for details

DEPLOYMENT

Next Generation Firewall (NGFW)

- Security gateway to the Internet for enterprises
- Enforce security policies with granular control and visibility of users and devices for thousands of discrete applications
- Identify and stop threats with powerful intrusion prevention beyond port and protocol that examines the actual content of your network traffic

Internal Segmentation Firewall (ISFW)

- Segmentation solution for end-to-end protection against threats while meeting compliance requirements
- High port density and accelerated traffic processing capacity, to protect multiple segments without compromising performance
- Deploy transparently and rapidly into existing environments with minimal disruption

Data Center Firewall and IPS (DCFW-IPS)

- High availability, high throughput and low latency firewall for data center edge and core
- High session scale for accommodating large network and user traffic for Internet and cloud-facing data centers
- High-speed interfaces for future-proof connectivity while compact size contributes to greener data centers
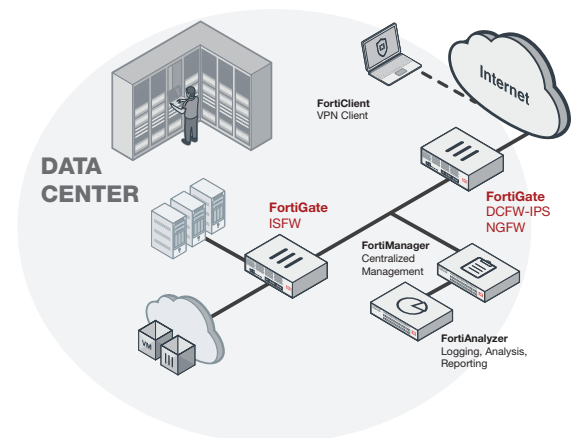- Performance optimized IPS engine to detect and deter latest known and zero day threats

Carrier-Class Firewall (CCFW)

- Reliable high capacity firewall designed for service providers
- Powered by multiple SPU Network Processors that accelerate processing for both IPv4 and IPv6 traffic
- Supports Carrier License upgrade that unlocks features and protocol support for mobile networks such as GTP and SCTP
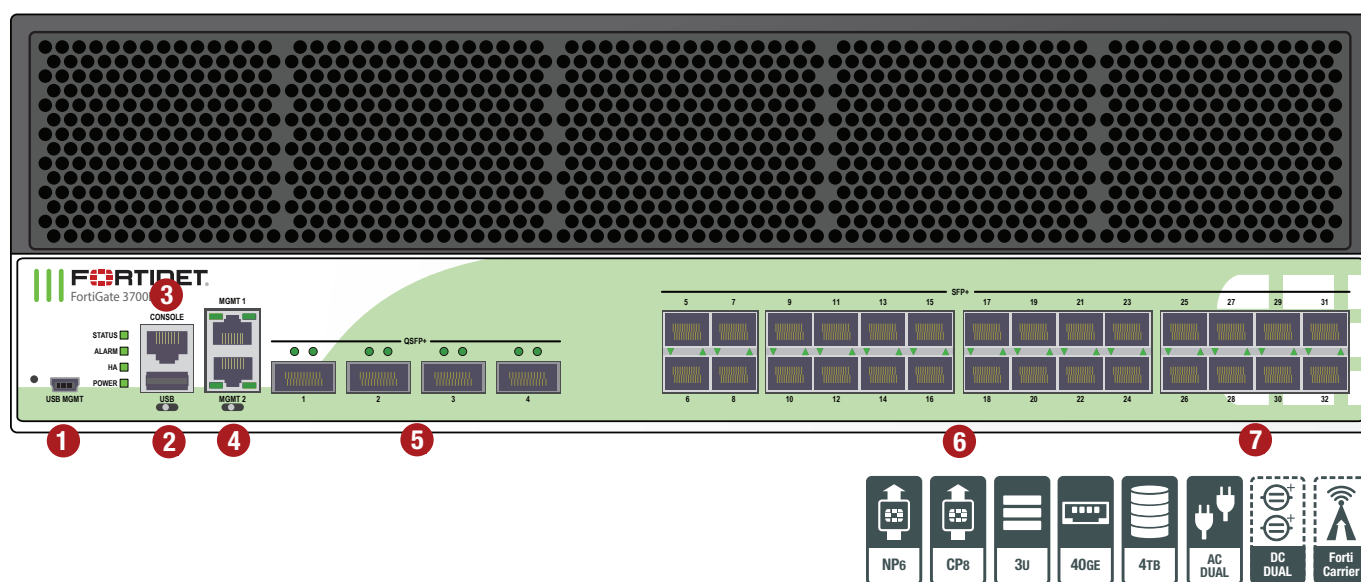- High-speed interfaces for future-proof connectivity
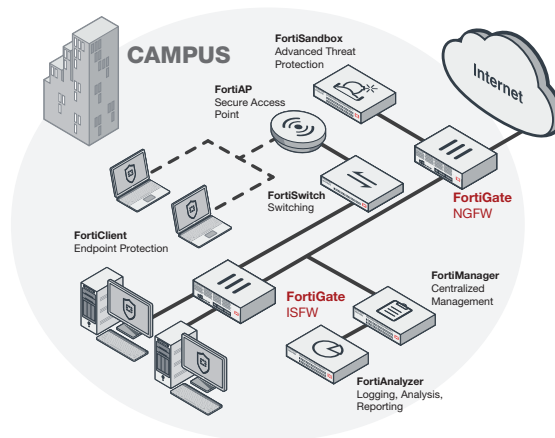
FortiGate 3700D deployment in large campus networks (NGFW, ISFW)

FortiGate 3700D deployment in data center (DCFW/NGFW, ISFW)

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 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

## 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.

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.
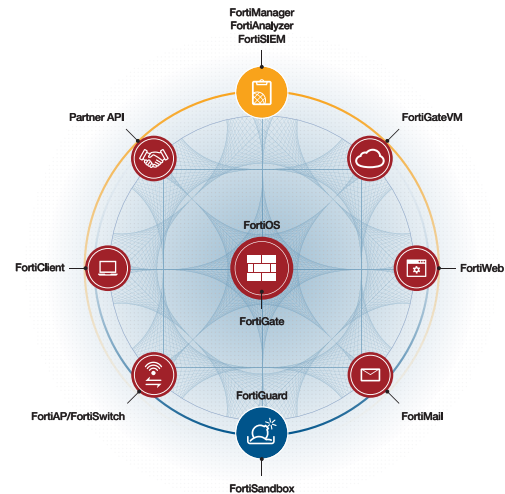
FortiOS

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.
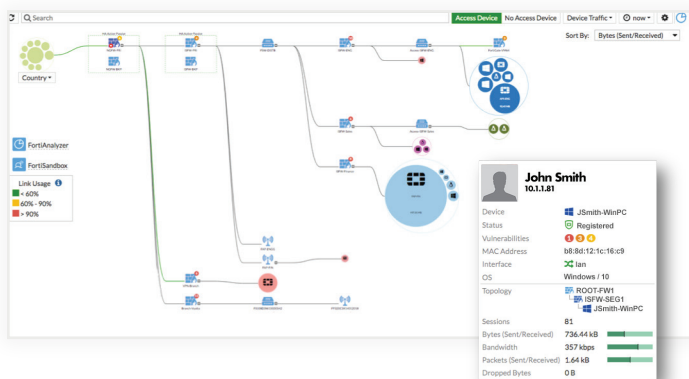
- A truly consolidated platform with one OS for all security and networking services for all FortiGate platforms.

- 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.

- Ultilize 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 3700D AND 3700D-DC	
Interfaces and Modules	
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	2x 2TB HDD
Included Transceivers	2x SFP+ (SR 10GE)
System Performance and Capacity	
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) [1]	100 Gbps
Gateway-to-Gateway IPsec VPN Tunnels	40,000
Client-to-Gateway IPsec VPN Tunnels	200,000
SSL-VPN Throughput	10 Gbps
Concurrent SSL-VPN Users (Recommended Maximum, Tunnel Mode)	30,000
SSL Inspection Throughput (IPS, HTTP) [3]	24 Gbps
Application Control Throughput (HTTP 64K) [2]	40 Gbps
CAPWAP Throughput (1444 byte, UDP)	22 Gbps
Virtual Domains (Default / Maximum)	10 / 500
Maximum Number of Switches Supported	256
Maximum Number of FortiAPs (Total / Tunnel Mode)	4,096 / 1,024
Maximum Number of FortiTokens	5,000
Maximum Number of Registered FortiClients	100,000
High Availability Configurations	Active / Active, Active / Passive, Clustering
System Performance — Optimal Traffic Mix	
IPS Throughput [2]	57 Gbps
System Performance — Enterprise Traffic Mix	
IPS Throughput [2]	28 Gbps
NGFW Throughput [2,4]	20 Gbps
Threat Protection Throughput [2,5]	13 Gbps

FORTIGATE 3700D AND 3700D-DC	
Dimensions and Power	
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)	40–72V DC
Power Consumption (Average / Maximum)	609.6 / 840 W
Heat Dissipation	2,871 BTU/h
Redundant Power Supplies	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	60 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
NEBS Certified	Yes

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 3700D	FG-3700D	4x 40 GE QSFP+ slots, 28x 10 GE SFP+ slots, 2x GE RJ45 Management, SPU NP6 and CP8 hardware accelerated, 4 TB (2x 2TB) HDD 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, SPU NP6 and CP8 hardware accelerated, 960 GB (2x 480 GB) SSD 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, SPU NP6 and CP8 hardware accelerated, 4 TB (2x 2 TB) HDD 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, SPU NP6 and CP8 hardware accelerated, 960 GB (2x 480 GB) SSD onboard storage, and dual DC power supplies. NEBS Certified.

Optional Accessories		
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.

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

FST-PROD-DS-GT37K   FG-3700D-DAT-R26-201803