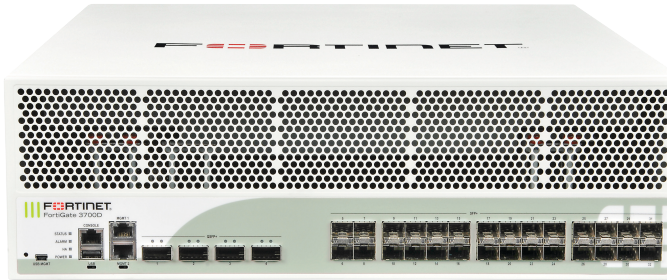# FortiGate® 3700D

FG-3700D and FG-3700D-DC

Next Generation Firewall
Segmentation
Secure Web Gateway
IPS
Mobile Security

The FortiGate 3700D 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
- 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
160 Gbps	28 Gbps	20 Gbps	13 Gbps	Multiple 40 GE QSFP+, 10 GE SFP+ and GE SFP

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

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

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

Mobile Security for 4G, 5G, and IOT

- SPU accelerated, high performance CGNAT and IPv4 and IPv6 traffic, for 4G SGi LAN and 5G N6 security

- RAN Access Security with highly scalable and best performing IPsec aggregation and control security gateway (SecGW)

- User plane security enabled by full Threat Protection and visibility into GTP-U inspection

- 4G and 5G security for user and data plane traffic SCTP, GTP-U/C and SIP that provides protection against attacks

- 4G and 5G cores IoT signaling storm protection

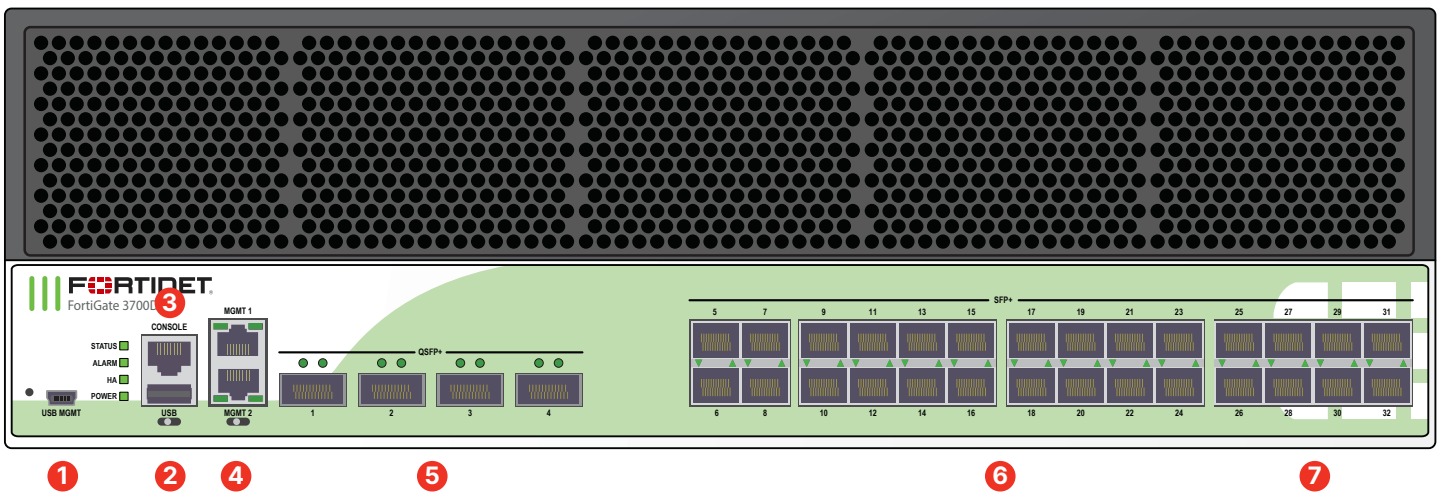- High-speed interfaces to enable deployment flexibility
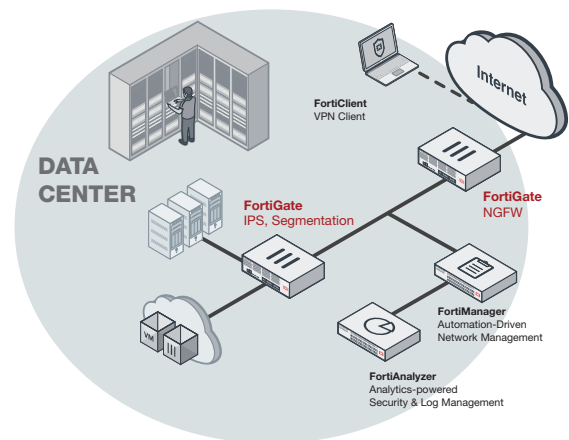
Data Center Deployment
(NGFW, IPS, and Intent-based Segmentation)

HARDWARE

FortiGate 3700D

Interfaces

1. USB Management Port
2. USB Port
3. Console Port
4. 2x GE RJ45 Management Ports
5. 4**x** 40 GE QSFP Slots
6. 20**x** 10 GE SFP+ / GE SFP Slots
7. 8**x** 10 GE SFP+ Slots (Ultra-low latency)

Hardware Features

NP6	CP8	3U	40GE	4TB	AC DUAL	DC DUAL	Forti Carrier

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 the following.

- 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 CP8 content processor works outside of the direct flow of traffic and accelerates the inspection.

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.
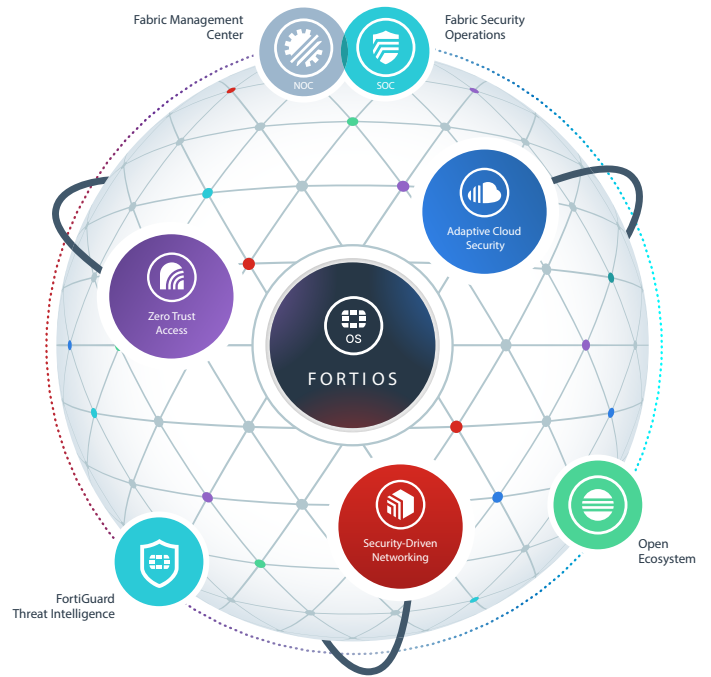
FORTINET SECURITY FABRIC

Security Fabric

The 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

	FG-3700D	FG-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	2× 2 TB HDD	
Included Transceivers	2x SFP+ (SR 10GE)	
System Performance — Enterprise Traffic Mix		
IPS Throughput [2]	28 Gbps	
NGFW Throughput [2, 4]	20 Gbps	
Threat Protection Throughput [2, 5]	13 Gbps	
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, avg. HTTPS) [3]	15.5 Gbps	
SSL Inspection CPS (IPS, avg. HTTPS) [3]	8,500	
SSL Inspection Concurrent Session (IPS, avg. HTTPS) 3	3.5 Million	
Application Control Throughput (HTTP 64K) [2]	40 Gbps	
CAPWAP Throughput (1444 byte, UDP)	22 Gbps	
Virtual Domains (Default / Maximum)	10 / 500	
Maximum Number of FortiSwitches Supported	300	
Maximum Number of FortiAPs (Total / Tunnel Mode)	4,096 / 2,048	
Maximum Number of FortiTokens	20,000	
High Availability Configurations	Active-Active, Active-Passive, Clustering	

	FG-3700D	FG-3700D-DC
Dimensions and Power		
Height x Width x Length (inches)	5.25 × 17.2 × 22.8	
Height x Width x Length (mm)	133 × 437 × 579	
Weight	46.9 lbs (21.3 kg)	
Form Factor (supports EIA/non-EIA standards)	Rack Mount, 3 RU	
AC Power Supply	100–240V AC, 50/60 Hz	
AC Current (Maximum)	12A@100V, 5A@240V	
Power Consumption (Average / Maximum)	609.6 W / 840 W	
Heat Dissipation	2,871 BTU/h	
DC Power Supply (FG-3700D-DC)	–	-48V DC
DC Current (Maximum)	–	17.5A
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	
Forced Airflow	Front to Back	
Operating Altitude	Up to 7,400 ft (2,250 m)	
Compliance	FCC Part 15 Class A, RCM, 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.
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

Product	SKU	Description
FortiGate 3700D	FG-3700D	4× 40 GE QSFP+ slots, 28× 10 GE SFP+ slots, 2x GE RJ45 Management, SPU NP6 and CP8 hardware accelerated, 4 TB (2× 2TB) HDD onboard storage, and dual AC power supplies.
FortiGate 3700D-DC	FG-3700D-DC	4× 40 GE QSFP+ slots, 28× 10 GE SFP+ slots, 2x GE RJ45 Management, SPU NP6 and CP8 hardware accelerated, 4 TB (2× 2 TB) HDD onboard storage, and dual DC power supplies.
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	FN-TRAN-LX	1 GE SFP LX transceiver module for all systems with SFP and SFP/SFP+ slots.
1 GE SFP RJ45 Transceiver Module	FN-TRAN-GC	1 GE SFP RJ45 transceiver module for all systems with SFP and SFP/SFP+slots.
1 GE SFP SX Transceiver Module	FN-TRAN-SX	1 GE SFP SX transceiver module for all systems with SFP and SFP/SFP+ slots.
10 GE SFP+ RJ45 Transceiver Module	FN-TRAN-SFP+GC	10 GE SFP+ RJ45 transceiver module for systems with SFP+ slots.
10 GE SFP+ Transceiver Module, Short Range	FN-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	FN-TRAN-SFP+LR	10 GE SFP+ transceiver module, long range for all systems with SFP+ and SFP/SFP+ slots.
10 GE SFP+ Transceiver Module, Extended Range	FN-TRAN-SFP+ER	10 GE SFP+ transceiver module, extended range for all systems with SFP+ and SFP/SFP+ slots.
40 GE QSFP+ Transceiver Module, Short Range	FN-TRAN-QSFP+SR	40 GE QSFP+ transceiver module, short range for all systems with QSFP+ slots.
40 GE QSFP+ Transceiver Module, Long Range	FN-TRAN-QSFP+LR	40 GE QSFP+ transceiver module, long range for all systems with QSFP+ slots.
40 GE QSFP+ Transceiver Module, Short Range BiDi	FG-TRAN-QSFP+SR-BIDI	40 GE QSFP+ transceiver module, short range BiDi for all systems with QSFP+ slots.
AC Power Supply	SP-FG3800D-PS	AC power supply for FG-3700D, FG-3700DX, FG-3810D and FG-3815D.
DC Power Supply	SP-FG3800D-DC-PS	DC power supply for FG-3700D-DC, FG-3810D-DC, FG-3815D-DC.

BUNDLES

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	Enterprise Protection	Unified Threat Protection	Advanced Threat Protection
FortiCare	24×7	24×7	24×7
FortiGuard App Control Service	•	•	•
FortiGuard IPS Service	•	•	•
FortiGuard Advanced Malware Protection (AMP) — Antivirus, Mobile Malware, Botnet, CDR, Virus Outbreak Protection and FortiSandbox Cloud Service	•	•	•
FortiGuard Web and Video[1] Filtering Service	•	•	
FortiGuard Antispam Service	•	•	
FortiGuard Security Rating Service	•		
FortiGuard IoT Detection Service	•		
FortiGuard Industrial Service	•		
FortiConverter Service	•		

1. Available when running FortiOS 7.0

FORTINET