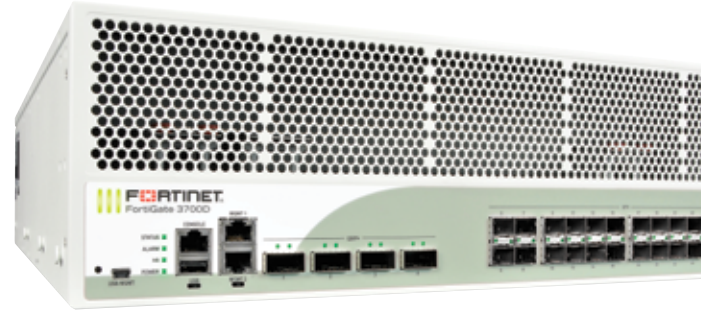


FortiGate®-3700D

High Performance Data Center Firewall



Data centers, cloud providers, carriers and service providers need a high-speed, high-capacity firewall to stay ahead of ever-increasing network performance requirements and continued evolution of the threat landscape.

Eliminate Security Bottlenecks

The FortiGate-3700D high performance, high capacity data center firewall provides exceptional performance of 160 Gbps and ultra-low latency, ensuring your data center security solution doesn't become your data center bottleneck. It delivers this breakthrough performance and protection in a compact 3U form factor with four 40-GbE and 28 10-GbE interfaces that preserves scarce rack space while maximizing capacity. Powered by the new FortiASIC NP6 processor, the FortiGate-3700D is the first data center appliance to deliver performance parity for IPv4 and IPv6 traffic and dramatically increases VPN performance, enabling you to keep pace with your evolving network.

Flexible Deployment

The FortiGate-3700D gives you the flexibility to choose the firewall personality that best fits your requirements at the Edge or Core. You can take advantage of the high port density for physical segmentation of your network, as well as the virtual domains (VDMs) for virtual segmentation. The FortiOS 5 security operating system also allows you to deploy additional layers of integrated protection, such as IPS or NGFW to match your risk and performance profiles.

Key Features & Benefits

160 Gbps throughput, ultra-low latency	Eliminates performance bottlenecks with high performance, compact data center firewall
Custom FortiASIC NP6 processors	Delivers best-in-class performance including breakthrough IPv4 / IPv6 performance parity
4 x 40-GbE and 28 x 10-GbE ports	High speed, high density ports keep pace with evolving data center needs
Network segmentation	Enables physical or virtual segmentation based on architecture, services, function, or policies
Single pane of glass management	Reduces management complexity with consolidated view of all security functions

Performance and Reliability for High Bandwidth Networks

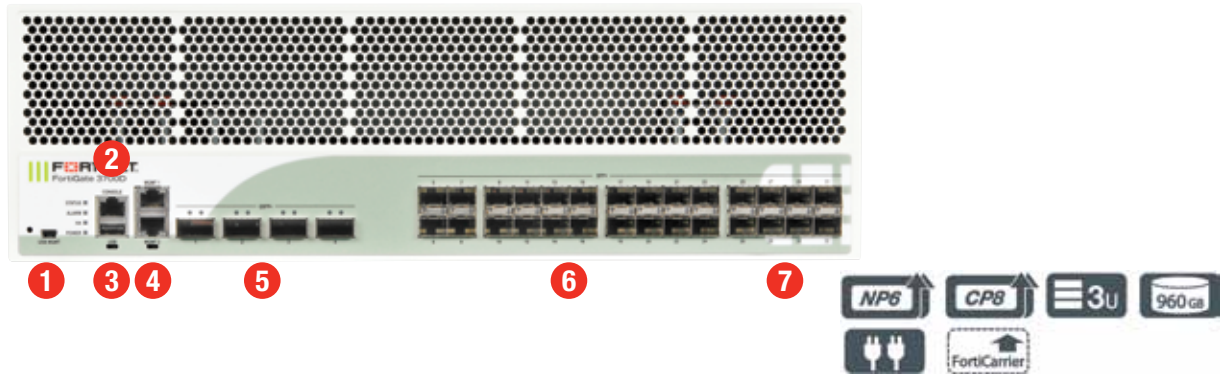
- Breakthrough IPv4 to IPv6 firewall performance parity
- Flexible firewall personalities enable deployment at the Edge or Core
- Compact 3U footprint conserves rack space and minimizes energy consumption
- Freedom to add integrated security technologies (such as IPS, App Control, VPN)
- Cloud-ready multi-tenant support and APIs for rapid orchestration
- FortiOS 5 delivers the most complete, battle-tested set of security functions to protect your network and data



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www.fortiguards.com



Interfaces

- | | |
|------------------------------|--|
| 1 USB Management Port | 4 2 x GbE RJ45 Management Ports |
| 2 Console Port | 5 4 x 40-GbE QSFP Slots |
| 3 USB Port | 6 20 x 10-GbE SFP+ / GbE SFP Slots |
| | 7 8 x 10-GbE 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

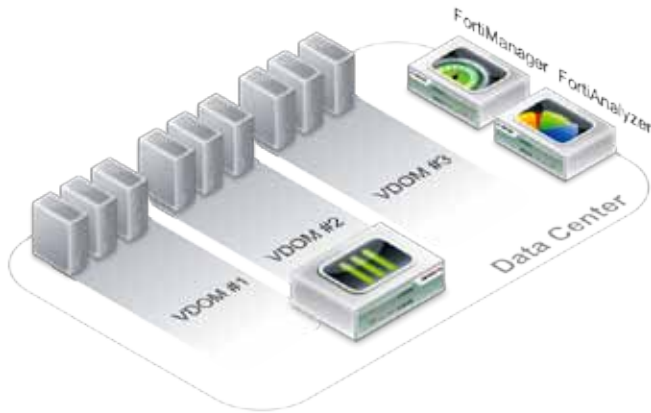
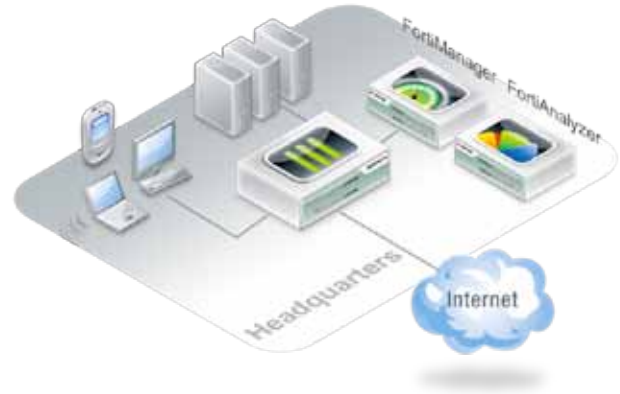
40-GbE Connectivity for Core Infrastructure

High speed connectivity is essential for network security segmentation at the core of data networks. The FortiGate-3700D provides one of the highest 40-GbE and 10-GbE port densities in the market, simplifying network designs without relying on additional devices to bridge desired connectivity.

DEPLOYMENT

Next-Generation Perimeter Security

Firewalls alone aren't enough to block today's blended threats & attacks. Data Centers require multi-layered security technologies that examine entire packet flows, from content inspection through reassembly, stopping threats at the perimeter. The FortiGate-3700D offers these critical functionality without compromising performance & scalability.

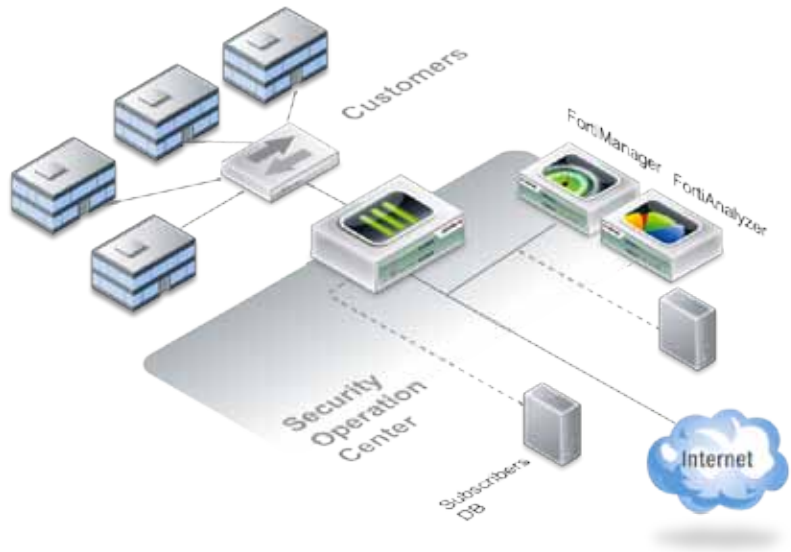


Data Center Core Security

Today's high-speed data centers require not only perimeter security but also network protection between various network segments at the core. The FortiGate-3700D meets the requirement as a security gateway with superior next generation firewall performance and features. High density 10G interfaces allow connectivity between the segments without the need of bridging devices.

MSSP Solution

The FortiGate-3700D delivers comprehensive security for Managed Security Service Providers (MSSPs). The full suite of Fortinet integrated management applications — including granular reporting features — offer unprecedented visibility into the security posture of customers while identifying their highest risks.



SOFTWARE FEATURES



FortiOS Dashboard - Single Pane of Glass Management

Unique Visibility and Control

FortiOS allows greater traffic visibility and more consistent, granular control over users, devices, applications and sensitive data. Dashboard widgets allow you to quickly view and understand real-time network activities and threat situations.

Ease of Use

FortiOS lowers operational costs and reduces IT staff workload. Single pane of glass management and centralized analysis ensure consistent policy creation and enforcement while minimizing deployment and configuration challenges.

Comprehensive Systems Integration

Integration with external systems are possible with wide range of interfacing protocols support and certified solution partners. You can rely on facilities such as SNMP, sFlow and syslog for monitoring purposes. Integration with provisioning systems and custom portals is possible with Web Service APIs via FortiManager. Scripting using various scripting languages is supported by manipulating CLI commands.

Proven with Industry Validation

FortiGate holds more industry certifications than competitive products, assuring feature quality and providing you best-of-breed protection.

Robust Virtual Systems

FortiOS Virtual Domains (VDOMs) is proven method of dividing a FortiGate unit/cluster into two or more virtual units that function as independent units. It has the industry's most comprehensive virtualization capabilities to meet today's complex MSSP deployments.

Identity Centric Enforcement

FortiOS supports both local and remote authentication services such as LDAP, RADIUS and TACACS+ to identify users and apply appropriate access policies and security profiles accordingly. It can simplify identity based implementations and provide a seamless user authorization experience with single sign-on capabilities. FortiOS has strong PKI and certificate-based authentication services while also integrating an internal two factor authentication server for additional security.

SOFTWARE FEATURES

Extensive Network Support

FortiOS meets numerous network design requirements. A wealth of routing, multicasting and network resiliency protocols are supported for interoperating with other networking devices.

Superior IPS capabilities

Over 4000 IPS signatures enables you to stop attacks that evade more conventional firewalls. Behavior-based heuristics recognize zero day threats for which no signature has been created.

Application Control

Advanced application control lets you define and enforce policies for thousands of applications running across networks regardless of port or the protocol used for communication.

Powerful Policy Management

Two types of policy management views - global and section view - are available to suit your preferences. Policy objects can be easily edited from the policy table. Available management features include policy object search, tagging, sorting and filtering.

With FortiManager integration, you have the ability to set up sophisticated policy implementation and provisioning workflows to meet compliance or operational requirements. FortiAnalyzer enables complete and accurate configuration audit trails to reside externally for secured storage.

Flexible Role-based Administration

Access profiles can be defined to provide granular access to VDOMs and system functionalities. This is valuable in facilitating compliant enterprise-class security operation workflows.

Beyond Next Generation Firewall Capabilities

FortiOS supports various value-adding components to the network that is unique in the market. This includes in-box token server, wireless controller and vulnerability scanner. These features simplify network design and deployment while also providing more secure implementations without incurring additional cost.

Broad IPv6 Support

Maintaining security for both IPv4 and IPv6 traffic will be crucial to the success of mixed networks. Malware and network threats are independent of IPv4 or IPv6. FortiOS is able to use IPv6 security policies to provide access control and UTM protection for IPv6 traffic. FortiOS has been successfully evaluated as compliant with core protocol and interoperability tests defined by IPv6 Ready Logo Phase 2.

World-Class Technical Support and Documentation

Fortinet FortiCare support offerings provide comprehensive global support for all Fortinet products and services. You can rest assured your Fortinet security products are performing optimally and protecting your users, applications, and data around the clock.

More Features with FortiCarrier Software License

- SIP/IMS signaling firewall protects internal infrastructure and service against malicious messages and overload while providing NAT services and redundancy, providing VoIP edge scalability and a platform for managed security services
- MMS security - content scanning and protection (keyword blocking, antivirus, file-type blocking, antispam detection) with per-user services provide enhanced end-user security for increased uptime and higher customer satisfaction
- GTP firewall delivers protocol anomaly detection and prevention with multiple filter options for end-to-end security

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

SPECIFICATIONS

Interfaces & Modules	
40-GbE QSFP Slots	4
10-GbE SFP+ / GbE SFP Slots	20
10-GbE SFP+ Slots (Ultra-low latency)	8
GbE RJ45 Management Ports	2
USB Ports (Client / Server)	1 / 1
Console Port	1
Internal Storage	960 GB

System Performance & 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)	44 Million
New Sessions/Sec (TCP)	300,000
Firewall Policies	100,000
IPSec VPN Throughput (512 byte)	100 Gbps
Gateway-to-Gateway IPSec VPN Tunnels	10,000
Client-to-Gateway IPSec VPN Tunnels	64,000
SSL-VPN Throughput	6 Gbps
Concurrent SSL-VPN Users (recommended Max)	30,000
IPS Throughput	23 Gbps
Antivirus Throughput (Proxy Based / Flow Based)	7.5 / 18 Gbps
Virtual Domains (Default / Max)	10 / 500
Max Number of FortiAPs (Total / Tunnel Mode)	4,096 / 1,024
Max Number of FortiTokens	5,000
Max Number of Registered FortiClients	8,000
High Availability Configurations	Active / Active, Active / Passive, Clustering

Note: All performance values are "up to" and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files.

Dimensions & Power	
Height x Width x Length	5.25 x 17.2 x 22.8 in (133 x 437 x 579 mm)
Weight	46.9 lbs (21.3 kg)
Form Factor	3 RU
AC Power Supply	100 - 240 VAC, 50 - 60 Hz
Power Consumption (Avg / Max)	725 / 870 W
Heat Dissipation	2,970 BTU/h
Redundant Power Supplies	Yes, Hot Swappable

Operating Environment & Certifications	
Operating Temperature	32 - 104 °F (0 - 40 °C)
Storage Temperature	-31 - 158 °F (-35 - 70 °C)
Humidity	20 to 90% non-condensing
Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/cUL, CB
Certifications	ICSA Labs: Firewall, IPSec, IPS, Antivirus, SSL VPN

Note: All performance values are "up to" and vary depending on system configuration. Antivirus performance is measured using 44 Kbyte HTTP files. IPS performance is measured using 1 Mbyte HTTP files.

ORDER INFORMATION

Appliance		
FortiGate-3700D	FG-3700D	4 x 40GE QSFP+ slots , 28 x 10GE SFP+ slots, 2 x GE RJ45 Management, 960 GB onboard storage, Dual AC power Supplies
Accessories		
SFP LX Transceiver Module	FG-TRAN-LX	Transceiver LX module for all FortiGate models with SFP interfaces with LC connector
SFP Gig Copper Transceiver Module	FG-TRAN-GC	Transceiver Base-T (Copper) module for all FortiGate models with SFP interfaces, supports 10/100/1000 operation with RJ45 connector
SFP SX Transceiver Module	FG-TRAN-SX	Transceiver SX module for all FortiGate models with SFP interfaces
SFP+ Transceiver Module	FG-TRAN-SFP+SR	10-Gig transceiver, short range SFP+ module for all FortiGate models with SFP+ interfaces with LC connector
SFP+ Long Range Transceiver Module	FG-TRAN-SFP+LR	10-Gig transceiver, SFP+, Long Range
QSFP+ Transceiver Module	FG-TRAN-QSFP+SR	40GE transceiver, QSFP+, Short Range



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