



**FortiGate® 3700DX**  
High Performance Data Center Firewall



# FortiGate 3700DX

## High Performance Data Center Firewall

The FortiGate 3700DX high performance, high capacity data center firewall provides exceptional security performance. It is also equipped with additional hardware acceleration for handling unique service provider traffic such as GRE tunneling.

### Eliminate Security Bottlenecks

It delivers protection in a compact 3U form factor with high port density that preserves scarce rack space while maximizing capacity. Powered by FortiASICs, the FortiGate 3700DX delivers performance parity for both IPv4 and IPv6 traffic and dramatically increases security performance, enabling you to keep pace with your evolving network.

### Flexible Deployment

The FortiGate 3700DX 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 (VDOMs) for virtual segmentation.

### Highlights

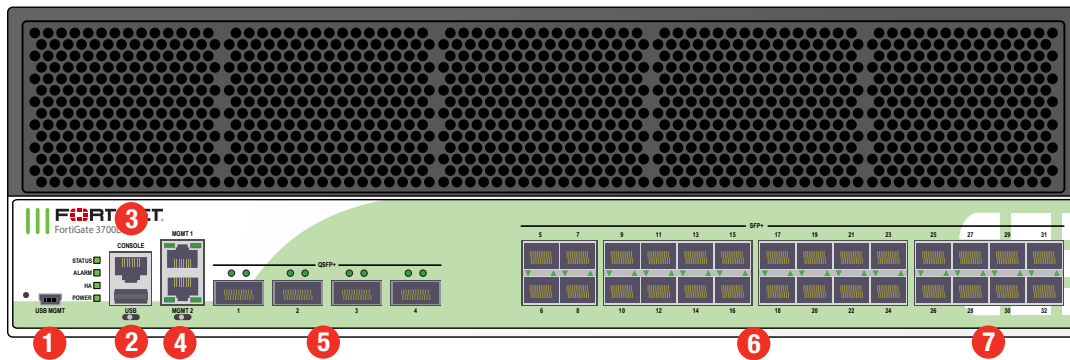
| Firewall Performance | IPS Performance | Interfaces   |
|----------------------|-----------------|--|
| 160 Gbps             | 23 Gbps         | Multiple 40 GE QSFP+, 10 GE SFP+, GE SFP and GE RJ45 |

## Performance and Reliability for Service Provider Networks

- Breakthrough IPv4 to IPv6 firewall performance parity
- Specialized hardware acceleration for GRE traffic
- 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



# 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

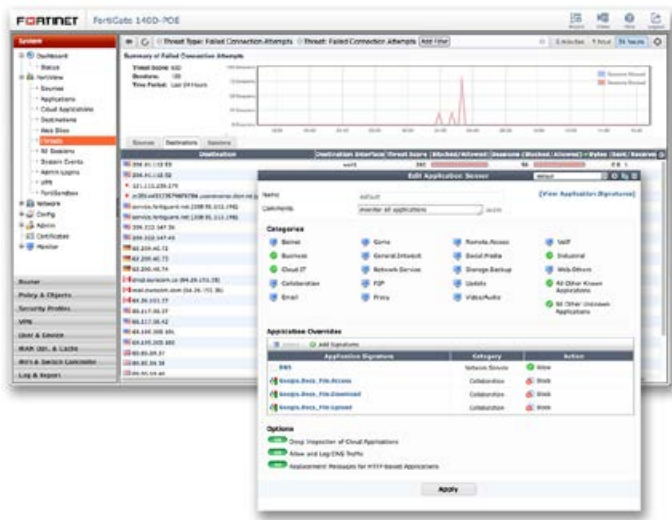
The FortiASIC CP8 content processor works outside of the direct flow of traffic, providing high-speed cryptography and content inspection services including:

- Signature-based content inspection acceleration
- Encryption and decryption offloading

## Extended Processor

Additional hardware acceleration component that provides traffic handling boost for GRE traffic.

## SOFTWARE



FortiOS Management UI — FortiView and Application Control Panel

### FortiOS

FortiOS helps you protect your organization against advanced threats, configure and deploy your network security faster and see deep into what's happening inside your network. It enables organization to set up policies specific to types of devices, users and applications with industry-leading security capabilities. FortiOS leverages custom FortiASICs and the Optimum Path Processing architecture of FortiGate to deliver 5 times faster throughput performance. In essence, FortiOS delivers:

- **Comprehensive Security** — Control thousands of applications and stop more threats with NSS Labs Recommended IPS, sandboxing, VB100 certified antimalware and more.
- **Superior Control and Visibility** — Stay in control with rich visibility over network traffic, granular policy control, and intuitive, scalable security and network management.
- **Robust Networking Capabilities** — Optimize your network with extensive switching and routing, high availability, WAN optimization, embedded WiFi controller, and a range of virtual options.



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.



For more information, please refer to <http://forti.net/guard>

### 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.
- **Premium 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.



For more information, please refer to <http://forti.net/care>

## SPECIFICATIONS

| FORTIGATE 3700DX                                     |   |
|--|---|
| <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                                    | 100,000                                       |
| GRE Throughput (512 Byte, UDP)                       | 37 Gbps                                       |
| 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                                       | 23 Gbps                                       |
| Antivirus Throughput                                 | 7.5 Gbps                                      |
| CAPWAP Clear-text Throughput (HTTP)                  | 12.30 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 3700DX                                |   |
|---|---|
| <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 |

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. IPsec VPN performance is based on 512 byte UDP packets using AES-256+SHA1. Antivirus Throughput is measured in proxy mode.

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

## ORDER INFORMATION

| Product                                    | SKU              | Description  |
|--|------------------|--|
| FortiGate 3700DX                           | FG-3700DX        | 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. Includes FortiASIC XP1 hardware acceleration for GRE and GTP traffic. |
| FortiCarrier Upgrade                       | FCR-EUPG         | Electronic FortiCarrier Upgrade License Certificate for supported FortiGate models.  |
| <b>Optional Accessories</b>                |                  |  |
| 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-FG3700D-PS    | AC power supply for FG-3700D.  |
| DC Power Supply                            | SP-FG3700D-DC-PS | DC power supply for FG-3700D.  |



GLOBAL HEADQUARTERS  
Fortinet Inc.  
899 Kifer Road  
Sunnyvale, CA 94086  
United States  
Tel: +1.408.235.7700  
www.fortinet.com/sales

EMEA SALES OFFICE  
120 rue Albert Caquot  
06560, Sophia Antipolis,  
France  
Tel: +33.4.8987.0510

APAC SALES OFFICE  
300 Beach Road 20-01  
The Concourse  
Singapore 199555  
Tel: +65.6513.3730

LATIN AMERICA SALES OFFICE  
Prol. Paseo de la Reforma 115 Int. 702  
Col. Lomas de Santa Fe,  
C.P. 01219  
Del. Alvaro Obregón  
México D.F.  
Tel: 011-52-(55) 5524-8480