

# FortiADC™

FortiADC 60F, 100F, 200F, 300F, 400F, 1000F, 2000F, 4000F, 5000F, and VM

## Application Delivery without any limits.

The FortiADC Application Delivery Controllers (ADC) optimize the availability, user experience, performance and application security. The FortiADC family of physical and virtual appliances delivers fast, secure and intelligent acceleration and distribution of demanding applications in the enterprise.



### Acceleration and Performance

Multi-core processor technology, combined with hardware-based SSL offloading to accelerate application performance.



### Application Availability

24x7 application availability through automatic failover, global server load balancing, and link load balancing to optimize WAN connectivity.



### Application Protection

Advanced Web Application Firewall protection from the OWASP top 10 and threat detection with Fortinet Security Fabric.

## Highlights

- Comprehensive server load balancing for 99.999% application uptime
- Server offloading for improved application acceleration, scale and TCO
- Intelligent traffic management for optimized application delivery and availability
- Web Application Firewall with Integrated vulnerability scanner
- Hardware-based SSL Offloading, Forward Proxy, and Visibility
- Advanced User Authentication
- Included Global Server Load Balancing
- Included Link Load Balancing and WAN Optimization
- Scripting for Custom Load Balancing, Health Check and Content Rewriting

## Highlights

### Hardware-Based SSL Offloading, SSL Inspection, and Visibility

FortiADC offloads server-intensive SSL processing with support for 4096-bit keys, TCP connection management, data compression and HTTP request processing from servers. This speeds up response times, reduces load on the backend servers, allowing them to serve more users.

SSL Forward Proxy utilizes FortiADC's high-capacity decryption and encryption to allow other devices, such as a FortiGate firewall, to easily inspect traffic for threats. An inline pair of FortiADCs at the front end and back end of a firewall remove all encryption so that the firewall isn't taxed with the additional load of SSL processing. FortiADC ensures seamless re-encryption with certificates intact with no user disruptions.

FortiADC's Transparent HTTP/S and TCP/S Mirroring Capabilities decrypt secure traffic for inspection and reporting. Copies of clear traffic can be sent for analysis by FortiGate or other third-party solutions for an in-depth view of threats that may be hidden in encrypted traffic while FortiADC continues to perform its application delivery functions.

FortiADC integrates with Gemalto's SafeNet Enterprise Hardware Security Modules (HSMs) to use the advanced security certificates managed by the HSM for the encryption and decryption of secure application traffic. This lets organizations that use Gemalto's SafeNet HSMs deploy a high-performance ADC solution using a strong, centrally-managed set of certificates and encryption keys.

### Disaster Recovery with Global Server Load Balancing

FortiADC's included Global Server Load Balancing (GSLB) makes your network reliable and available by scaling applications across multiple data centers for disaster recovery or to improve application response times. Administrators can set up rules that direct traffic based on site availability, data center performance and network latency.

### Web Application Firewall

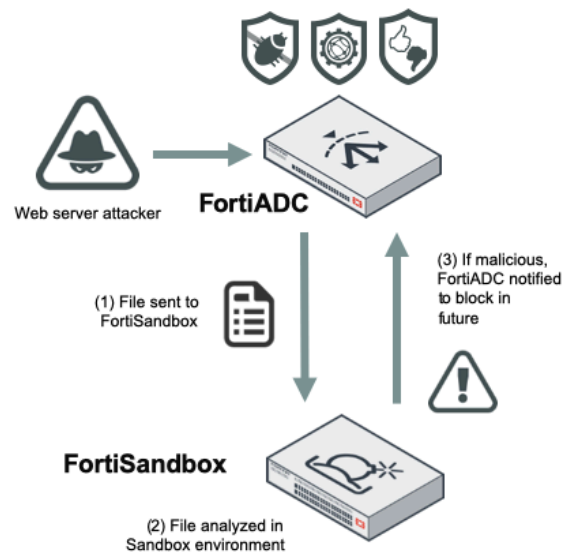
FortiADC offers multiple levels of protection to defend against attacks that target your web applications. FortiADC Web Application Firewall can detect a zero day attack and protect from OWASP top-10 and many other threats with multi-vector protection such as SQLi and XSS Protection, Web Scraping, Brute Force, Web Defacement, Protocol Validation (HTTP RFC) and Web Attack Signature using FortiGuard WAF Security Services for layer 7 attacks (subscription required). Also, FortiADC WAF provides full Web Vulnerability Scanning for your website to detect and alert against known attacks.

### Optimize Performance with PageSpeed, Caching, and Compression

FortiADC provides multiple services that speed the delivery of applications to users. The PageSpeed suite of website performance enhancement tools can automatically optimize HTTP, CSS, Javascript and image delivery to application users. Caching on FortiADC dynamically stores popular application content such as images, videos, HTML files and other file types to alleviate server resources and accelerate overall application performance. HTTP Compression employs GZIP and DEFLATE to intelligently compress many content types used by today's latest web-based applications to reduce bandwidth needs and improve the user application experience.

### Deep Integration into the Fortinet Security Fabric

As the threat landscape evolves, many new threats require a multi-pronged approach for protecting applications. Advanced Persistent Threats that target users can take many different forms than traditional single-vector attack types and can evade protections offered only by a single device. FortiADC's antivirus and integration with FortiSandbox extend basic security protections to scan file attachments for known and unknown threats.



### DDoS Application, Web Filtering, IPS, Geo-IP and IP Reputation for Enhanced Security

FortiGuard Web Filtering works with FortiADC's SSL Forward Proxy feature to simplify the process of managing exceptions for secure traffic inspection. Instead of manually configuring single URLs, Web Filtering gives administrators the ability to choose websites

## Highlights

by category type to enable or disable SSL traffic inspection as a group instead of on a site by site basis. FortiADC also supports our FortiGuard which provides multi services such as: IPS, Antivirus and IP Reputation service (subscription required) that protects you from sources associated with DoS/DDoS attacks, phishing schemes, spammers, malicious software and botnets.

## Scripting to Extend Built-in Features

FortiADC's Lua-based scripting language gives you the flexibility to create custom, event-driven rules using predefined commands, variables and operators. Using easy-to-create scripts, you get the flexibility you need to extend your FortiADC with specialized business rules that give you almost unlimited possibilities for server load balancing, health checks, application validation, content routing, and content rewriting to meet the needs of your organization.

## Link Load Balancing

Built-in Link Load Balancing (LLB) gives you the option to connect your FortiADC to two or more WAN links to reduce the risk of outages or to add additional bandwidth to relieve traffic congestion. FortiADC supports inbound and outbound Link Load Balancing to manage traffic leaving or entering the device. Using policy routing, FortiADC can support complex NAT and routing requirements to address almost any network LLB architecture. With Tunnel Routing you get high-speed, reliable site-to-site connectivity without the need to lease expensive WAN links. It aggregates multiple links to create a virtual tunnel to a remote data center that ensures availability especially for applications that are time sensitive and require large single-session bandwidth such as video conferencing.

## Analytics and Visibility

FortiADC offers real-time and historical information about your appliance, which includes the logical topology of real-server pools, user/application data-analytics, security threats, attack maps and some other system events and alerts.



FortiADC Dashboard

## VM and Public Cloud Options

FortiADC provides maximum flexibility in supporting your virtual and hybrid environments. The virtual versions of FortiADC support all the same features as our hardware-based devices and can be deployed in VMware, Microsoft Hyper-V, Citrix XenServer, Open Source Xen, and KVM platforms. FortiADC is also available for Amazon Web Services, Microsoft Azure, Google Cloud and Oracle Cloud.

## Key Features and Benefits



|  |  |
|--|--|
| <b>Advanced Layer 7 Load Balancing</b>               | Intuitive L7 policy-based routing to dynamically rewrite content to support complex applications and server configurations.  |
| <b>Web Application Firewall</b>                      | Advanced Web Application Firewall that protects applications with Web Application Attack Signatures, Protocol Validation, Web Vulnerability Scanner, Bot Detection, DLP and File Restriction.                            |
| <b>SSL Offloading, Forward Proxy, and Visibility</b> | Hardware and software-based SSL offloading reduces the performance impact on your server infrastructure. Also provides SSL visibility, decryption and re-encryption for FortiGate to easily inspect traffic for threats. |
| <b>Application Optimization</b>                      | Speed up web application delivery with Compression, Caching, HTTP 2.0, and HTTP Page Speed-UP for improved network and web server utilization.   |
| <b>Global Server Load Balancing</b>                  | Included Global Server Load Balancing distributes traffic across multiple geographical locations for disaster recovery or to improve user response times.  |
| <b>User Authentication</b>                           | Provide Policy enforcement and access control to all applications using Kerberos, SAML, SSO and Two-Factor Authentication (FortiToken and Google Authenticator)  |
| <b>Link Load Balancing</b>                           | Link Load Balancing distributes traffic over multiple ISPs to increase resilience and reduce the need for costly bandwidth upgrades.   |

## Features

### Application Availability

#### Easy to use and configure Layer 4/7 policy and group management

- Virtual service definition with inherited persistence, load balancing method and pool members
- Static, default and backup policies and groups
- Layer 4/7 application routing policy
- Layer 4/7 server persistence
- Application load balancing based on round robin, weighted round robin, least connections, shortest response
- Granular real server control including warm up rate limiting and maintenance mode with session ramp down
- Custom Scripting for SLB and Content Rewriting
- Application Templates for Microsoft Applications including SharePoint, Exchange and Windows Remote Desktop
- Application and script health checks
- Clone Traffic Pools

#### Layer 4 Application Load Balancing

- TCP, UDP stateless protocols supported
- Round robin, weighted round robin, least connections, shortest response
- L4 dynamic load balancing based on server parameters (CPU, Memory and disk)
- Persistent IP, has IP/port, hash header, persistent cookie, hash cookie, destination IP hash, URI hash, full URI hash, host hash, host domain hash

#### Layer 7 Application Load Balancing

- DNS, HTTP, HTTPS, HTTP 2.0 GW, FTP, SIP, RDP, RADIUS, MySQL, RTMP, RTSP supported
- L7 content switching
  - HTTP Host, HTTP Request URL, HTTP Referrer
  - Source IP Address
- URL Redirect, HTTP request/response rewrite (includes HTTP body)
- Layer 7 DNS load balancing, security, and caching
- 403 Forbidden Rewrite
- Content rewriting

#### Link Load Balancing

- Inbound and outbound LLB
- Support for Policy Route and SNAT
- Multiple health check target support
- Configurable intervals, retries and timeouts
- Tunnel Routing

#### Global Server Load Balancing (GSLB)

- Global data center DNS-based failover of web applications
- Delivers local and global load balancing between multi-site SSL VPN deployments
- DNSSEC
- DNS Access Control Lists
- GSLB setup wizard

#### Deployment Modes

- One arm-mode (Proxy with X-forwarded for support)
- Router mode
- Transparent mode (switch)
- High Availability (AA/AP Failover)

### Web Application Firewall

#### Application Protection

- OWASP Top 10 Wizard
- Web Attack Signature
- Bot Detection
- Web Vulnerability Scanner
- HTTP RFC compliance

#### Security Services

- SQLi/XSS Injection Detection
- OpenAPI Validation
- Web Scraping
- CSRF Protection
- Brute Force Protection
- Web Defacement Protection
- Data Leak Prevention
- File Restriction
- Cookie Security
- XML/JSON/SOAP Validation
- HTTP Header Security

## Features

### Application Acceleration

#### SSL Offloading and Acceleration

- Offloads HTTPS and TCPS processing while securing sensitive data
- Full certificate management features
- SSL Forward Proxy for secure traffic inspection
- HTTP/S Mirroring for traffic analysis and reporting
- Support TLS 1.3

#### HTTP and TCP Optimization

- 100x acceleration by off-loading TCP processing
- Connection pooling and multiplexing for HTTP and HTTPS
- HTTP Page Speed-UP for Web Server Optimization and Acceleration
- TCP buffering
- HTTP Compression and Decompression
- HTTP Caching (static and dynamic objects)
- Bandwidth allocation with Quality of Service (QoS)
- HTTP and Layer 4 Rate Limiting

#### Authentication Offloading

- Local
- LDAP
- RADIUS
- Kerberos
- SAML 2.0 (SP & Idp)
- Two-Factor Authentication — FortiToken and Google Authentication

### Networking

- NAT for maximum flexibility and scalability
- VLAN and port trunking support
- Cisco ACI, Nutanix, OpenStack and Ansible
- NVGRE and VXLAN Support
- BGP and OSPF with Route Health Inspection (RHI)
- IPv6 Support
- IPv6 routing
- IPv6 firewall rules

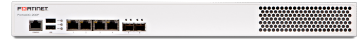
### Application Security

- FortiGuard Antivirus and FortiSandbox integration
- GEO IP security and logs (subscription required)
- Stateful firewall
- Web Filtering (subscription required)
- IP Reputation (subscription required)
- IPv4 and 6 firewall rules
- Granular policy-based connection limiting
- Syn Cookie Protection
- Connection Limits
- Intrusion Prevention System (subscription required)
- Application DDoS Protection
- DNS Security

### Management

- Single point of cluster management
- CLI Interface for configuration and monitoring
- Secure SSH remote network management
- Secure Web UI access
- Central management for multiple FortiADC devices
- RESTful API
- SNMP with private MIBs with threshold-based traps
- Real-time Data Analytics
- Syslog support
- Role-based administration
- In-build diagnostic utilities
- Real-time monitoring graphs
- Built-in reporting
- FortiView Integration
- Data Analytics
- Getting Started wizard for first-time login
- Virtual Domains (VDOMs)

# Specifications



|                                       | FORTIADC 60F  | FORTIADC 100F  | FORTIADC 200F                                   |
|---------------------------------------|---|--|---|
| <b>Hardware Specifications</b>        |   |  |   |
| L4/L7 Throughput                      | 400 Mbps / 200 Mbps                                 | 1.5 Gbps / 1.3 Gbps  | 3 Gbps / 2.2 Gbps                               |
| L4 CPS                                | 15,000  | 50,000   | 100,000   |
| L4 HTTP RPS                           | 45,000  | 150,000  | 300,000   |
| Maximum L4 Concurrent Connection      | 1M  | 3M   | 5M  |
| L7 CPS (1:1) *                        | 5,000   | 15,000   | 25,000  |
| SSL CPS/TPS (1:1) 2K keys **          | 50  | 400  | 1,000   |
| SSL Bulk Encryption Throughput        | 240 Mbps  | 400 Mbps   | 1 Gbps  |
| Compression Throughput                | 400 Mbps  | 1Gbps  | 1.5 Gbps  |
| SSL Acceleration Technology           | Software  | Software   | Software  |
| Memory                                | 4 GB  | 8 GB   | 8 GB  |
| Virtual Domains                       | 2   | 10   | 10  |
| Network Interfaces                    | 5x GE R45   | 6x GE RJ45   | 4x GE RJ45, 2x GE SFP                           |
| 10/100/1000 Management Interface      | —   | —  | —   |
| Storage                               | 64 GB SSD   | 64 GB SSD  | 64 GB SSD                                       |
| Management                            | HTTPS, SSH CLI,<br>Direct Console DB9 CLI, SNMP     | HTTPS, SSH CLI,<br>Direct Console DB9 CLI, SNMP            | HTTPS, SSH CLI,<br>Direct Console DB9 CLI, SNMP |
| Power Supply                          | Single  | Single   | Single  |
| <b>Environment</b>                    |   |  |   |
| Form Factor                           | Desktop   | 1U Appliance   | 1U Appliance                                    |
| Input Voltage                         | 100–240V, 50–60Hz                                   | 100–240V AC, 50–60 Hz                                      | 100–240V AC, 50–60 Hz                           |
| Power Consumption (Average / Maximum) | 14.3 W / 11.9 W                                     | 40 W / 60 W  | 70.98 W / 109.9 W                               |
| Maximum Current                       | 115V AC / 0.9A, 230 V AC / 0.6A                     | 100V / 1.5A, 240V / 0.6A                                   | 100V / 2A, 240V / 0.84A                         |
| Heat Dissipation                      | 49 BTU/h  | 132–163 BTU/h  | 374.9 BTU/h                                     |
| Operating Temperature                 | 32–104°F (0–40°C)                                   | 32–104°F (0–40°C)  | 32–104°F (0–40°C)                               |
| Storage Temperature                   | -31–158°F (-35–70°C)                                | -4–167°F (-20–75°C)  | -31–158°F (-35–70°C)                            |
| Humidity                              | 20–90% non-condensing                               | 10–85% relative humidity,<br>non-operating, non-condensing | 20–90% non-condensing                           |
| <b>Compliance</b>                     |   |  |   |
| Regulatory Compliance                 | FCC Part 15 Class A, C-Tick, VCCI Class A, CE, UL/c |  |   |
| Safety                                | CSA, C/US, CE, UL                                   | CSA, C/US, CE, UL  | CSA, C/US, CE, UL                               |
| <b>Dimensions</b>                     |   |  |   |
| Height x Width x Length (inches)      | 1.5 x 8.5 x 6.3                                     | 1.75 x 17.3 x 10.55  | 1.7 x 17 x 11.9                                 |
| Height x Width x Length (mm)          | 38 x 216 x 160                                      | 44 x 440 x 268   | 44 x 432 x 301.4                                |
| Weight                                | 2.2 lbs (1 kg)                                      | 9.9 lbs (4.5 kg)   | 10.98 lbs (4.98 kg)                             |

All performance values are "up to" and vary depending on the system configuration.

\* Layer 7 CPS — measures number of new HTTP connections (1 HTTP request per TCP connection)

\*\* Tested with 1 HTTP request per SSL connection; SSL Ciphers=AES256-SHA; 2K Keys

# Specifications



|                                       | FORTIADC 300F                                   | FORTIADC 400F                                   | FORTIADC 1000F                                      |
|---------------------------------------|---|---|---|
| <b>Hardware Specifications</b>        |   |   |   |
| L4/L7 Throughput                      | 8 Gbps  | 15 Gbps / 12 Gbps                               | 20 Gbps / 15 Gbps                                   |
| L4 CPS                                | 300,000   | 400,000   | 425,000   |
| L4 HTTP RPS                           | 1M  | 1.5M  | 1.5M  |
| Maximum L4 Concurrent Connection      | 12M   | 12M   | 18M   |
| L7 CPS (1:1) *                        | 100,000   | 120,000   | 150,000   |
| SSL CPS/TPS (1:1) 2K keys **          | 4,000   | 15,000  | 20,000  |
| SSL Bulk Encryption Throughput        | 3 Gbps  | 6 Gbps  | 7.5 Gbps  |
| Compression Throughput                | 6 Gbps  | 10 Gbps   | 12 Gbps   |
| SSL Acceleration Technology           | Software  | ASIC  | ASIC  |
| Memory                                | 16 GB   | 32 GB   | 32 GB   |
| Virtual Domains                       | 10  | 20  | 45  |
| Network Interfaces                    | 4x GE RJ45, 4x GE SFP                           | 2x 10 GE SFP+, 4x GE SFP, 4x GE RJ45            | 4x 10 GE SFP+, 8x GE SFP, 8x GE RJ45                |
| 10/100/1000 Management Interface      | —   | —   | 1   |
| Storage                               | 128 GB SSD                                      | 120 GB SSD                                      | 240 GB SSD  |
| Management                            | HTTPS, SSH CLI,<br>Direct Console DB9 CLI, SNMP | HTTPS, SSH CLI,<br>Direct Console DB9 CLI, SNMP | HTTPS, SSH CLI,<br>Direct Console DB9 CLI, SNMP     |
| Power Supply                          | Single  | Single (optional Redundant PS)                  | Dual  |
| <b>Environment</b>                    |   |   |   |
| Form Factor                           | 1U Appliance                                    | 1U Appliance                                    | 1U Appliance  |
| Input Voltage                         | 100–240V AC, 50–60 Hz, 5-3A                     | 100–240V AC, 50–60 Hz, 5-3A                     | 100–240V AC, 63–47 Hz                               |
| Power Consumption (Average / Maximum) | 90 W / 99 W                                     | 114 W / 137 W                                   | 267 W / 320 W                                       |
| Maximum Current                       | 100-240V AC / 6-3A, 50/60 Hz                    | 100–240V AC, 50–60 Hz, 5-3A                     | 120V / 7.1A, 240V / 3.4A                            |
| Heat Dissipation                      | 337.8 BTU/h                                     | 467.4 BTU/h                                     | 1092 BTU/h  |
| Operating Temperature                 | 32–104°F (0–40°C)                               | 32–104°F (0–40°C)                               | 32–104°F (0–40°C)                                   |
| Storage Temperature                   | -13–167°F (-25–75°C)                            | -13–167°F (-25–75°C)                            | -4–158°F (-20–70°C)                                 |
| Humidity                              | 5–95% non-condensing                            | 5–95% non-condensing                            | 5–90% non-condensing                                |
| <b>Compliance</b>                     |   |   |   |
| Regulatory Compliance                 | CE, FCC, RCM, VCCI, BSMI                        | CE, FCC, RCM, VCCI, BSMI                        | FCC Part 15 Class A, C-Tick, VCCI Class A, CE, UL/c |
| Safety                                | UL, CB, IEC                                     | UL, CB, IEC                                     | CSA, C/US, CE, UL                                   |
| <b>Dimensions</b>                     |   |   |   |
| Height x Width x Length (inches)      | 1.73 x 17.24 x 16.38                            | 1.73 x 17.24 x 16.38                            | 1.7 x 17.24 x 20.87                                 |
| Height x Width x Length (mm)          | 44 x 438 x 416                                  | 44 x 438 x 416                                  | 44 x 438 x 530                                      |
| Weight                                | 20 lbs (9.07 kg)                                | 20 lbs (9.07 kg)                                | 22.6 lbs (10.3 kg)                                  |

All performance values are "up to" and vary depending on the system configuration.

\* Layer 7 CPS — measures number of new HTTP connections (1 HTTP request per TCP connection)

\*\* Tested with 1 HTTP request per SSL connection; SSL Ciphers=AES256-SHA; 2K Keys

# Specifications



|                                       | FORTIADC 2000F                                      | FORTIADC 4000F                                      | FORTIADC 5000F                               |
|---------------------------------------|---|---|--|
| <b>Hardware Specifications</b>        |   |   |  |
| L4/L7 Throughput                      | 40 Gbps / 25 Gbps                                   | 60 Gbps / 35 Gbps                                   | 250 Gbps / 220 Gbps                          |
| L4 CPS                                | 750,000   | 800,000   | 4M   |
| L4 HTTP RPS                           | 2.6M  | 3.8M  | 18M  |
| Maximum L4 Concurrent Connection      | 36M   | 72M   | 160M   |
| L7 CPS (1:1) *                        | 250,000   | 300,000   | 1.1M   |
| SSL CPS/TPS (1:1) 2K keys **          | 37,000  | 54,000  | 100,000                                      |
| SSL Bulk Encryption Throughput        | 11 Gbps   | 14 Gbps   | 120 Gbps                                     |
| Compression Throughput                | 18 Gbps   | 25 Gbps   | 150 Gbps                                     |
| SSL Acceleration Technology           | ASIC  | ASIC  | ASIC   |
| Memory                                | 64 GB   | 128 GB  | 192 GB                                       |
| Virtual Domains                       | 60  | 90  | 90   |
| Network Interfaces                    | 8x 10 GE SFP+, 8x GE SFP, 8x GE RJ45                | 8x GE, 4x 10 GE, 2x 40 GE                           | 4x 100 GE QSFP28, 8x 40 GE QSFP              |
| 10/100/1000 Management Interface      | 1   | 1   | 1  |
| Storage                               | 240 GB SSD  | 480 GB SSD  | 960 GB SSD                                   |
| Management                            | HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP        | HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP        | HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP |
| Power Supply                          | Dual  | Dual  | Dual   |
| <b>Environment</b>                    |   |   |  |
| Form Factor                           | 1U Appliance  | 2U Appliance  | 2U Appliance                                 |
| Input Voltage                         | 100–240V AC, 63–47 Hz                               | 100–240V AC, 63–47 Hz                               | 220–240V AC                                  |
| Power Consumption (Average / Maximum) | 282 W / 340 W                                       | 300 W / 360 W                                       | 2200 W                                       |
| Maximum Current                       | 120V / 7.1A, 240V / 3.4A                            | 120V / 8A, 240V / 4A                                | 120V / 11.8A, 240V / 9.6A                    |
| Heat Dissipation                      | 1160 BTU/h  | 1228 BTU/h  | 7506 BTU/hr                                  |
| Operating Temperature                 | 32–104°F (0–40°C)                                   | 32–104°F (0–40°C)                                   | 50–95°F (10–35°C)                            |
| Storage Temperature                   | -4–158°F (-20–70°C)                                 | -4–158°F (-20–70°C)                                 | -40–140°F (-40–60°C)                         |
| Humidity                              | 5–90% non-condensing                                | 5–90% non-condensing                                | 8–90% non-condensing                         |
| <b>Compliance</b>                     |   |   |  |
| Regulatory Compliance                 | FCC Part 15 Class A, C-Tick, VCCI Class A, CE, UL/c | FCC Part 15 Class A, C-Tick, VCCI Class A, CE, UL/c | CE, FCC, RCM, VCCI, BSMI                     |
| Safety                                | CSA, C/US, CE, UL                                   | CSA, C/US, CE, UL                                   | UL, CB, IEC                                  |
| <b>Dimensions</b>                     |   |   |  |
| Height x Width x Length (inches)      | 1.7 x 17.24 x 20.87                                 | 3.46 x 17.24 x 20.87                                | 3.4 x 17.2 x 30.2                            |
| Height x Width x Length (mm)          | 44 x 438 x 530                                      | 88 x 438 x 530                                      | 80.6 x 436.9 x 777.2                         |
| Weight                                | 22.6 lbs (10.3 kg)                                  | 27 lbs (12.25 kg)                                   | 68.3 lbs (31 kg)                             |

All performance values are "up to" and vary depending on the system configuration.

\* Layer 7 CPS — measures number of new HTTP connections (1 HTTP request per TCP connection)

\*\* Tested with 1 HTTP request per SSL connection; SSL Ciphers=AES256-SHA; 2K Keys

|                                     | FORTIADC-VM01  | FORTIADC-VM02      | FORTIADC-VM04      | FORTIADC-VM08      | FORTIADC-VM16      | FORTIADC-VM32      |
|-------------------------------------|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>Hardware Specifications</b>      |  |                    |                    |                    |                    |                    |
| Hypervisor Support                  | VMware ESX/ESXi, Citrix XenServer, Open Source Xen, Microsoft Hyper-V, KVM, AWS, Azure, Google Cloud, Oracle Cloud. Please see the FortiADC-VM Install Guide for the latest hypervisor versions supported. |                    |                    |                    |                    |                    |
| L4 Throughput*                      | 1 Gbps   | 2 Gbps             | 4 Gbps             | 10 Gbps            | 16 Gbps            | 24 Gbps            |
| Virtual Domains                     | 0  | 0                  | 5                  | 10                 | 15                 | 20                 |
| vCPU Support (Maximum)              | 1  | 2                  | 4                  | 8                  | 16                 | 32                 |
| Memory Support (Maximum)            | 4 GB   | 4 GB               | 8 GB               | 16 GB              | 32 GB              | 64 GB              |
| Network Interface Support (Maximum) | 10   | 10                 | 10                 | 10                 | 10                 | 10                 |
| Storage Support (Minimum / Maximum) | 50 MB / 1 TB   | 50 MB / 1 TB       | 50 MB / 1 TB       | 50 MB / 1 TB       | 50 MB / 1 TB       | 50 MB / 1 TB       |
| Throughput                          | Hardware Dependent   | Hardware Dependent | Hardware Dependent | Hardware Dependent | Hardware Dependent | Hardware Dependent |
| Management                          | HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP   |                    |                    |                    |                    |                    |

\* Actual performance values may vary depending on the network traffic and system configuration. Performance results were observed using an appliance with an Intel CPU E5-1650 v2 @ 3.50 GHz running VMware ESXi 5.5.



## Order Information

| Product                              | SKU           | Description  |
|--------------------------------------|---------------|--|
| FortiADC 60F                         | FAD-60F       | FortiADC 60F, 5x GE RJ45 ports, 64 GB SSD.   |
| FortiADC 100F                        | FAD-100F      | FortiADC 100F, 6x GE ports, 1x 64 GB SSD storage.  |
| FortiADC 200F                        | FAD-200F      | FortiADC 200F, 4x GE RJ45 ports, 2x GE SFP ports, 1x 64 GB SSD storage.  |
| FortiADC 300F                        | FAD-300F      | FortiADC 300F, 4x GE RJ45 ports, 4x GE SFP ports, 2x GE management ports, 1x 128 GB SSD storage.   |
| FortiADC 400F                        | FAD-400F      | FortiADC 400F, 4x GE RJ45 ports, 4x GE SFP ports, 2x 10 GE SFP+ ports, 2x management ports, 1x 480 GB SSD storage, Hardware SSL Accelerator, Optional Redundant PSU. |
| FortiADC 1000F                       | FAD-1000F     | FortiADC 1000F, 4x 10 GE SFP+ ports, 8x GE SFP ports, 8x GE RJ45 ports, 1x GE RJ45 management port, 1x 240 GB SSD, dual AC power supplies.                           |
| FortiADC 2000F                       | FAD-2000F     | FortiADC 2000F, 8x 10 GE SFP+ ports, 8x GE SFP ports, 8x GE RJ45 ports, 1x GE RJ45 management port, 1x 240 GB SSD, dual AC power supplies.                           |
| FortiADC 4000F                       | FAD-4000F     | FortiADC 4000F, 2x 40 GE QSFP, 4x 10 GE SFP+ ports, 8x GE SFP ports, 1x GE RJ45 management port, 1x 480 GB SSD, dual AC power supplies.                              |
| FortiADC 5000F                       | FAD-5000F     | FortiADC 5000F, 4x 100 GE QSFP28, 8x 40 GE QSFP, 1x GE RJ45 management port, 1x 960 GB SSD, dual AC power supplies.  |
| FortiADC-VM01                        | FAD-VM01      | FortiADC-VM software virtual appliance. Supports up to 1x vCPU core.   |
| FortiADC-VM02                        | FAD-VM02      | FortiADC-VM software virtual appliance. Supports up to 2x vCPU cores.  |
| FortiADC-VM04                        | FAD-VM04      | FortiADC-VM software virtual appliance. Supports up to 4x vCPU cores.  |
| FortiADC-VM08                        | FAD-VM08      | FortiADC-VM software virtual appliance. Supports up to 8x vCPU cores.  |
| FortiADC-VM16                        | FAD-VM16      | FortiADC-VM software virtual appliance. Supports up to 16x vCPU cores.   |
| FortiADC-VM32                        | FAD-VM32      | FortiADC-VM software virtual appliance. Supports up to 32x vCPU cores.   |
| Central Manager 10                   | FAD-CM-BASE   | FortiADC Central Manager license key, manage up to 10 FortiADC devices, VMware vSphere.  |
| Central Manager Unlimited            | FAD-CM-UL     | FortiADC Central Manager license key, manage unlimited number of FortiADC devices, VMware vSphere.   |
| <b>Optional Accessory</b>            |               |  |
| FortiADC 400F Redundant Power Supply | SP-FAD400F-PS | AC power supply for FAD-400F.  |