



FortiADC™ Application Delivery Controllers



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

Enterprise Application Acceleration and Performance

FortiADC appliances utilize multi-core processor technology, combined with SSL offload to accelerate application performance. Using QoS policies, they are able to optimize and handle heavy Layer 4 through 7 traffic loads while delivering Latency Sensitive Applications for small, medium and large enterprises.

Application Availability

FortiADC appliances deliver 99.999% uptime for enterprise application services with intelligent local and global server load balancing. The appliances provide application layer health check mechanisms for automatic failover of application services and use Link Load Balancing to optimize WAN connectivity. This results in 24x7 application availability while reducing business continuity risks.

Application Aware Intelligence and Control

FortiADC application-aware appliances eliminate performance bottlenecks, reduce application deployment complexity and seamless application integration. Fully aware of Layers 4 through 7 application traffic, connections, transactions, and content, they enable IT organizations to create event-driven policies for intelligent distribution of application traffic across web and application servers, and eliminates the need to replicate content across multiple servers. Content awareness is extended to the ability to create complex rules to dynamically rewrite content on the fly.

SSL and Server Offloading

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.

Features and Benefits

- Intelligent traffic management for optimized application delivery and availability.
- Server offloading for improved application acceleration, scale and TCO.
- SSL offload for accelerating application performance.
- Comprehensive server load balancing for 99.999% application uptime.
- Global Server Load Balancing for geographic resilience.
- Optimize WAN connectivity and ensure business continuity with Link Load Balancing.
- Prioritize applications and manage bandwidth using Quality of Service (QoS) policies.*
- Accelerate content delivery with on the fly compression.*
- Browser-based Web user interface for ease of management.
- Appliance and virtual machine form factor for greatest deployment flexibility.



FEATURES

Application Availability

Intelligent and easy to 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

Layer 4 Application Load Balancing

- TCP, UDP protocols supported
- Round robin, weighted round robin, least connections, shortest response
- Persistent IP, hash IP/port, hash header, persistent cookie, hash cookie
- RADIUS, DNS servers support

Layer 7 Application Load Balancing

- HTTP/HTTPS/FTP/RADIUS supported
- L7 content switching
 - HTTP Host, HTTP Request URL, HTTP Referrer
 - Source IP Address
- URL redirect, HTTP request/response rewrite
- 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

Global Server Load Balancing (GSLB)

- Global datacenter DNS based failover of web applications
- Delivers local and global load balancing between multi-site SSL VPN deployments

Deployment Modes

- Configurable proxy (NAT) or transparent (direct) mode per VIP
- X-Forwarded for configuration in proxy mode

High Availability

- Active/Passive Failover

Application Acceleration

SSL Offloading and Acceleration

- Offloads HTTPS processing while securing sensitive data
- Full certificate management features

TCP Acceleration

- 100x acceleration by off-loading TCP processing
- Connection pooling & multiplexing
- TCP buffering
- Client connection persistence
- HTTP Compression*
- Bandwidth allocation with Quality of Service (QoS)*

Networking

- NAT for maximum flexibility and scalability
- VLAN and port trunking support

IPv6 Support*

- IPv6 routing
- IPv6 firewall rules

Security*

- IPv4 and 6 firewall rules
- Granular policy based connection limiting
- Syn Cookie Protection

Management

- Single point of cluster management
- CLI Interface for configuration and monitoring
- Secure SSH remote network management
- Secure Web UI access
- SNMP with private MIBs with threshold based traps
- Syslog support
- Role-based administration
- In-built diagnostic utilities
- Real-time monitoring graphs

* Due to variances in software platforms between the FortiADC-D and FortiADC-E series units, not all features may be available on all platforms. Please contact your Fortinet sales representative or reseller for details on FortiADC features availability.



FortiADC-200D



FortiADC-300E



FortiADC-600E



FortiADC-1000E

SPECIFICATIONS

	FORTIADC-200D	FORTIADC-300E	FORTIADC-600E	FORTIADC-1000E
Hardware Specifications				
Throughput	2.7 Gbps	4.8 Gbps	10.0 Gbps	13.0 Gbps
Memory	4 GB	2 GB	4 GB	4 GB
Network Interfaces	4x GE RJ45	6x GE RJ45	2x 10 GbE SFP+ slots, 8x GE ports	2x 10 GbE SFP+ slots, 8x GE ports
Storage	1 TB Hard Disk	120 GB SSD	120 GB SSD	120 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	HTTPS, SSH, CLI, Direct Console DB9 CLI, SNMP
Power Supply	Single	Single	Single	Dual
Environment				
Form Factor	1U Appliance	1RU	1RU	1RU
Input Voltage	90–264V AC, 47–63 Hz	90–264V AC, 47–63 Hz	110–240V AC, 50–60 Hz	111 - 240V AC, 50 - 60 Hz
Power Consumption (AVG)	60 W	66 W	108 W	120 W
Power Consumption (MAX)	72 W	80 W		
Maximum Current	115V/6A, 230V/3A	100V/4A, 240V/2A	110V/5A, 240V/2.5A	110V/10A, 240V/5A
Heat Dissipation	205 BTU/h	273 BTU/h	478 BTU/h	1,044 BTU/h
Operating Temperature	32–104°F (0–40°C)	32–104°F (0–40°C)	32–104°F (0–40°C)	32–104°F (0–40°C)
Storage Temperature	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)
Humidity	5–95% non-condensing	5–95% non-condensing	5–95% non-condensing	5–95% non-condensing
Compliance				
Regulatory Compliance	FCC Part 15 Class A, C-Tick, VCCI, CE, UL/c	FCC Part 15 Class A, C-tick, VCCI, CE, UL/c	FCC Part 15 Class A, C-tick, VCCI, CE, UL/c	FCC Part 15 Class A, C-tick, VCCI, CE, UL/c
Safety	CSA, C/US, CE, UL	CSA, C/US, CE, UL	CSA, C/US, CE, UL	CSA, C/US, CE, UL
Dimensions				
Height x Width x Length (in)	1.75 x 17.05 x 13.86	1.75 x 17.05 x 13.86	1.75 x 17.25 x 18.25	1.75 x 17.25 x 21.00
Height x Width x Length (mm)	45 x 433 x 352	45 x 433 x 352	45 x 438 x 464	46 x 438 x 534
Weight	17.2 lbs (7.8 kg)	12.45 lbs (5.65 kg)	15.50 lbs (7.0 kg)	18.0 lbs (8.2 kg)
	FORTIADC-VM01	FORTIADC-VM02	FORTIADC-VM04	FORTIADC-VM08
Hardware Specifications				
Hypervisor Support	VMware ESXi / ESX 5.0 / 5.1			
vCPU Support (Min / Max)	1	2	4	8
Memory Support (Min / Max)	512 MB / 2 GB	512 MB / 4 GB	512 MB / 8 GB	512 MB / 16 GB
Network Interface Support (Min / Max)	10	10	10	10
Storage Support (Min / Max)	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
Management	HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP			

** Indicative figures based on testing with licensed number of vCore CPU on host system running Intel Core i7-2600K CPU @ 3.4 GHz and maximum licensed RAM.

ORDER INFORMATION

Product	SKU	Description
FortiADC-200D	FAD-200D	FortiADC-200D, 4x GE ports, 1x 1 TB storage.
FortiADC-300E	FAD-300E	FortiADC-300E, 6x GE ports, 1x 120 GB SSD storage.
FortiADC-600E	FAD-600E	FortiADC-600E, 2x 10 GbE SFP+ slots, 8x GE ports, 1x 120 GB SSD onboard storage.
FortiADC-1000E	FAD-1000E	FortiADC-1000E, 2x 10 GbE SFP+ slots, 8x GE ports, 1x 120 GB SSD onboard storage.
FortiADC-VM01	FAD-VM01	FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 1x vCPU core, 2 GB RAM.
FortiADC-VM02	FAD-VM02	FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 2x vCPU core, 4 GB RAM.
FortiADC-VM04	FAD-VM04	FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 4x vCPU core, 8 GB RAM.
FortiADC-VM08	FAD-VM08	FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 8x vCPU core, 16 GB RAM.

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