



## DATA SHEET

FortiADC<sup>™</sup> D-Series

Application Delivery Controllers



# FortiADC D-Series

# FortiADC 200D, 700D, 1500D, 2000D and 4000D Applicaton Delivery Controllers

The FortiADC D-series of Application Delivery Controllers (ADC) optimizes the availability, user experience, performance and scalability of Enterprise Application Delivery. The FortiADC D-series family of physical 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.

# High-performance, Secure Application Delivery

- 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.





### 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.

# 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.

### 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.

### **HTTP Compression**

Accelerate application performance and reduce overall bandwidth requirements with HTTP compression. FortiADC intelligently compresses HTTP and HTTPS traffic. By reducing server reply content size it accelerates performance and improves response times. FortiADC supports both industry standard GZIP and DEFLATE algorithms for many content types used by today's latest web-based applications.

# HTTP Caching

Reduce server overload, bandwidth saturation, high latency, and network performance issues with intelligent caching. 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.

## Virtual Domains (VDOMs)

Managed service provider and enterprise data center administrators can divide a FortiADC into two or more virtual FortiADC devices, each operating as an independent application delivery controller. Each VDOM can provide completely separate ADC services, such as server load balancing, SSL offloading, and traffic routing policies. A multi-VDOM FortiADC can be centrally managed or can be assigned to a VDOM administrator to manage their own virtual ADC.

# Enhanced Protection with IP Reputation Service

Attackers use many methods to infect and control devices to launch automated phishing, spamming, and DDoS attacks. The FortiGuard IP Reputation Service aggregates security data from around the world to provide up-to-date information about threatening sources. With feeds from distributed network gateways combined with world-class research done by FortiGuard Labs, organizations can stay up to date and proactively block attacks.

FortiGuard's IP Reputation Service categorizes and blocks threats from sources associated with:

- DoS and DDoS attacks
- Phishing attacks or hosted Phishing web sites
- Anonymous traffic arriving from paid or anonymous proxies used to disguise real client identity
- Malicious software
- Spammers
- Command and control communication

# Key Features & Benefits

Policy-Based Rules	es Intuitive L7 policy-based routing to dynamically rewrite content to support complex applications and server configurations.		
SSL Offloading	Hardware and software-based SSL offloading reduces the performance impact on your server infrastructure.		
Global Server Load Balancing	Included Global Server Load Balancing distributes traffic across multiple geographical locations for disaster recovery or to improve user response times.		
Link Load Balancing	Link Load Balancing distributes traffic over multiple ISPs to increase resilience and reduce the need for costly bandwidth upgrades.		
IP Reputation	IP Reputation Service protects your applications against automated web attacks by identifying access from botnets and other malicious sources.		
Quality of Service (QoS)	Prioritize traffic based on business needs or ensure optimal delivery of time-sensitive content like voice and video with Quality of Service.		

# 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, has IP/port, hash header, persistent cookie, hash cookie, destination IP hash, URI hash, full URI hash, host hash, host domain hash
- RADIUS, DNS servers support

#### Layer 7 Application Load Balancing

- HTTP/HTTPS/FTP/RADIUS supported
- L7 content switching
  - HTTP Host, HTTP Request URL, HTTP ReferrerSource 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
- Tunnel Routing

#### 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
- DNSSEC
- DNS Access Control Lists

#### **Deployment Modes**

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

#### **High Availability**

- Active/Passive Failover
- Active/Active 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 and multiplexing
- TCP buffering
- Client connection persistence
- HTTP Compression
- HTTP Caching
- Bandwidth allocation with Quality of Service (QoS)
- HTTP and Layer 4 Rate Limiting

#### Networking

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

#### IPv6 Support

### IPv6 routing

IPv6 firewall rules

#### Security

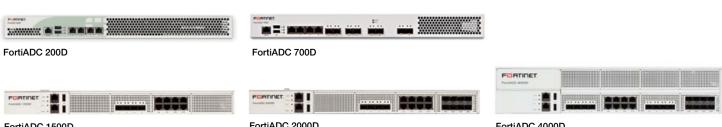
- IPv4 and 6 firewall rules
- Granular policy-based connection limiting
- Syn Cookie Protection
- IP Reputation (subscription required)

#### 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-build diagnostic utilities
- Real-time monitoring graphs
- Virtual Domains (VDOMs)

# **SPECIFICATIONS**

FORTIADC 200D	FORTIADC 700D	FORTIADC 1500D	FORTIADC 2000D	FORTIADC 4000D
2.7 Gbps	15.0 Gbps	20.0 Gbps	30.0 Gbps	50.0 Gbps
100,000	600,000	800,000	1,200,000	1,600,000
500 Mbps	12 Gbps	18 Gbps	25 Gbps	35 Gbps
900	12,000	14,500	31,000	31,000
500 Mbps	8 Gbps	10 Gbps	13 Gbps	16 Gbps
4 GB	16 GB	16 GB	16 GB	32 GB
—	5	10	10	25
4x GE RJ45	4x 10 GE SFP+ slots, 4x GE SFP ports, 4x GE ports	4x 10 GE SFP+ slots, 8x GE ports	4x 10 GE SFP+ slots, 16x GE ports	8x 10 GE SFP+ slots, 16x GE ports
—	—	1	1	1
1 TB Hard Disk	128 GB SSD	120 GB SSD	120 GB SSD	480 GB SSD
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	HTTPS, SSH CLI, Direct Console DB9 CLI, SNMF
Single	Single (optional Dual)	Dual	Dual	Dual
1U Appliance	1U Appliance	1U Appliance	1U Appliance	2U Appliance
90–264V AC, 47–63 Hz	100–240V, AC 50–60 Hz	100–240V AC, 63–47 Hz	100–240V AC, 63–47 Hz	100–240V AC, 63–47 Hz
60 W / 72 W	135 W / 162 W	288 W / 345 W	300 W / 360 W	450 W / 540 W
115V/6A, 230V/3A	100V/5A, 240V/3A	120V/6A, 240V/3A	120V/6A, 240V/3A	120V/9A, 240V/4A
205 BTU/h	508.68 BTU/h	1177 BTU/h	1228 BTU/h	1843 BTU/h
32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)	32-104°F (0-40°C)
-13-158°F (-25-70°C)	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)	-13–158°F (-25–70°C)
5–95% non-condensing	5–95% non-condensing	5–95% non-condensing	5–95% non-condensing	5–95% non-condensing
	FCC F	Part 15 Class A, C-Tick, VCCI Class	A, CE, UL/c	
		CSA, C/US, CE, UL		
1 75 x 17 05 x 13 86	1 73 x 17 24 x 16 38	1 73 x 17 24 x 22 83	1 73 x 17 24 x 22 83	3.46 x 17.52 x 23.70
				88 x 445 x 602
				36.11 lbs (16.38 kg)
		( 0)	( 0/	FORTIADC-VM08
	(TONTIADO-VM			
	VMw	are ESXi / ESX 5.0 / 5.1 / 5.5		
	0			(10)
<u>~</u>	<mark>~</mark>			8
512 MB / 2 GB	512 MB / 4 GB	512 N	<mark>/B / 8 GB</mark> )	512 MB / 16 GB
(10)	(10)	(10)		10
50 MB / 1 TB	50 MB / 1 TB	( <mark>50 Mi</mark>	<mark>3 / 1 TB</mark>	50 MB / 1 TB
Hardware Dependent	Hardware Deper	ndent) (Hardw	r <mark>are Dependent</mark>	Hardware Dependent
HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP)				
	2.7 Gbps 100,000 500 Mbps 900 500 Mbps 4 GB 	2.7 Gbps  15.0 Gbps    100,000  600,000    500 Mbps  12 Gbps    900  12,000    500 Mbps  8 Gbps    4 GB  16 GB     5    4x GE RJ45  4x 10 GE SFP+ slots, 4x GE SFP ports, 4x GE ports        1 TB Hard Disk  128 GB SSD    HTTPS, SSH CLI, Direct Console DB9 CLI, SNMP  Direct Console DB9 CLI, SNMP    Single  Single (optional Dual)    1U Appliance  1U Appliance    90-264V AC, 47-63 Hz  100-240V, AC 50-60 Hz    60 W / 72 W  135 W / 162 W    115V/6A, 230V/3A  100V/5A, 240V/3A    205 BTU/h  508.68 BTU/h    32-104°F (0-40°C)  32-104°F (0-40°C)    -13-158°F (-25-70°C)  -13-158°F (-25-70°C)    -14°F (0-40°C)  22 los (10 kg)    FCC F	2.7 Gbps  15.0 Gbps  20.0 Gbps    100,000  600,000  800,000    500 Mbps  12 Gbps  18 Gbps    900  12,000  14,500    500 Mbps  8 Gbps  10 Gbps    4 GB  16 GB  16 GB    -  5  10    4 GB  16 GB  16 GB    -  5  10    4 k GE RJ45  4x 10 GE SFP+ slots, 4x GE ports  8x GE ports    -  -  1  11    TB Hard Dak  128 GB SS0  120 GB SSD    11 Appliance  1U Appliance  1U Appliance  1U Appliance    90-264V AC, 47-63 Hz  100-240V, AC 50-60 Hz  100-240V AC, 63-47 Hz    90-264V AC, 47-63 Hz  100-240V, AC 50-60 Hz  100-240V AC, 63-47 Hz    90-264V AC, 47-63 Hz  100-240V, AC 50-60 Hz  100-240V AC, 63-47 Hz    90-264V AC, 47-63 Hz  100-240V, AC 50-60 Hz  100-240V AC, 63-47 Hz    90-264V AC, 47-63 Hz  100-240V, AC 50-60 Hz  100-240V AC, 63-47 Hz    90-264V AC, 47-63 Hz  100-240V, AC 50-60 Hz  100-240V AC, 63-47 Hz    90-264V AC, 47-63 Hz  100-240V, AC 63-47 Hz </td <td>2.7 Gbps    15.0 Gbps    20.0 Gbps    30.0 Gbps      100.000    600.000    800.000    1,200.000      500 Mtps    12 Gbps    18 Gbps    25 Gbps      900    12.000    14.500    31.000      500 Mtps    8 Gbps    10 Gbps    13 Gbps      4 GB    16 GB    16 GB    16 GB       5    10    10      4 GB K    4 K 10 GE SFP+ stots, 4 K 10 GE SFP+ stots, 5 Stot CL, Dietz Console DB9 CL, SMMP    11 1      1 TB Hard Dak    128 GB SSD    120 GB SSD    120 GB SSD      1 Deet Console DB9 CL, SMMP    Direct Console DB9 CL, SMMP    Direct Console DB9 CL, SMMP    Direct Console DB9 CL, SMMP      Single    Single (optional Duel)    Duel    Duel    Duel      90-264 V AC, 47-63 Hz    100-240V AC, 63-47 Hz    100-240V AC, 63-47 Hz    100-240V AC, 63-47 Hz      60 W / 72 W    135 W / 162 W    288 W / 345 W    300 W / 360 W    300 W / 360 W      20-264 V AC, 47-63 Hz    100-240V AC, 63-47 Hz    100-240V AC,</td>	2.7 Gbps    15.0 Gbps    20.0 Gbps    30.0 Gbps      100.000    600.000    800.000    1,200.000      500 Mtps    12 Gbps    18 Gbps    25 Gbps      900    12.000    14.500    31.000      500 Mtps    8 Gbps    10 Gbps    13 Gbps      4 GB    16 GB    16 GB    16 GB       5    10    10      4 GB K    4 K 10 GE SFP+ stots, 4 K 10 GE SFP+ stots, 5 Stot CL, Dietz Console DB9 CL, SMMP    11 1      1 TB Hard Dak    128 GB SSD    120 GB SSD    120 GB SSD      1 Deet Console DB9 CL, SMMP    Direct Console DB9 CL, SMMP    Direct Console DB9 CL, SMMP    Direct Console DB9 CL, SMMP      Single    Single (optional Duel)    Duel    Duel    Duel      90-264 V AC, 47-63 Hz    100-240V AC, 63-47 Hz    100-240V AC, 63-47 Hz    100-240V AC, 63-47 Hz      60 W / 72 W    135 W / 162 W    288 W / 345 W    300 W / 360 W    300 W / 360 W      20-264 V AC, 47-63 Hz    100-240V AC, 63-47 Hz    100-240V AC,



FortiADC 1500D

FortiADC 2000D

FortiADC 4000D

# **ORDER INFORMATION**

Product	SKU	Description
FortiADC 200D	FAD-200D	FortiADC-200D, 4x GE ports, 1x 1 TB storage.
FortiADC 700D	FAD-700D	FortiADC-700D, 4x 10 GE SFP+ slots, 8x GE ports, 1x 128 GB SSD onboard storage, optional dual AC power supplies.
FortiADC 1500D	FAD-1500D	FortiADC-1500D, 4x 10 GE SFP+ slots, 8x GE ports, 1x 120 GB SSD onboard storage, dual AC power supplies.
FortiADC 2000D	FAD-2000D	FortiADC-2000D, 4x 10 GE SFP+ slots, 16x GE ports, 1x 480 GB SSD onboard storage, dual AC power supplies.
FortiADC 4000D	FAD-4000D	FortiADC-4000D, 8x 10 GE SFP+ slots, 16x GE ports, 1x 480 GB SSD onboard storage, dual AC power supplies.
FortiADC-VM01	FAD-VM01	FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 1x vCPU core, 2 GB.
FortiADC-VM02	FAD-VM02	FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 2x vCPU core, 4 GB.
FortiADC-VM04	FAD-VM04	FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 4x vCPU core, 8 GB.
FortiADC-VM08	FAD-VM08	FortiADC-VM software virtual appliance designed for VMware ESX and ESXi platforms. 8x vCPU core, 16 GB.



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# **Fortinet Product Matrix**

產品	效能	Description	作業版本
FG-FW-Base Fortinet 網路防火牆 500Mbps	網路防火牆 500Mbps		
FG-FW-1000-UG Fortinet 網路防火牆 頻寬升級 1Gbps	網路防火牆 頻寬升級 1Gbps	提供防火牆控管存取政策,使用者身份辨識,IPSEC VPN, SSL VPN,SLB(主機負載平衡)及 無線網路控制器 (Wirelass Controller)	Vmware Hyper-V Citrix Xen OpenXen KVM AWS
FG-VM01/VM02/VM04/VM08 Fortinet 網路防火牆 (授權方式:依照 CPU 數量 1/2/4/8 四個 授權方式出貨)	網路防火牆 支援1CPU	— (Wireless Controller)	
FG-NGFW-Base Fortinet 新世代網路防火牆 500Mbps (含 FW, IPS, Application Control, AV, Web Filtering and Antispam)	新世代網路防火牆 500Mbps		
FG-NGFW-1000-UG Fortinet 新世代網路防火牆 頻寬升級 1Gbps (含 FW, IPS, Application Control, AV, Web Filtering and Antispam)		提供防火牆控管存取政策,使用者身份辨識,IPSEC VPN, SSL VPN, SLB(主機負載平衡), 無線網路控制器 (Wireless Controller),入侵防禦,應用程式控管,防毒, 不當網頁過濾,防垃圾郵件	Vmware Hyper-V Citrix Xen OpenXen KVM AWS
FG-VM01/VM02/VM04/VM08 Fortinet 新世代網路防火牆 500Mbps (含 FW, IPS, Application Control, AV, Web Filtering and Antispam) (授權方式:依照 CPU 數量 1/2/4/8 四個 授權方式出貨)	新世代網路防火牆 支援1CPU		
FMG-VM-Base 集中管理系統 Fortinet 集中管理系統 10 台設備		Fortinet 防火牆管理,設定和集中派送(政策,資安防禦 」資料庫)的中央管理系統r,支援10台設備	Vmware Hyper-V
FMG-VM-10-UG Fortinet 集中管理系統	集中管理平台設備 數量升級 - 10 台設備		
FAZ-VM-BASEFortinet 集中日誌報表 条統			Vmware Hyper-V AWS
AZ-VM-GB1 rtinet 集中日誌報表系統 錄數量升級 - 1 GB/Day		Fortinet 防火牆的集中日誌報表管理系統	
FSA-VM Fortinet 先進威脅防護系統 (ATP)	先進威脅防護系統 (ATP)	即時執行沙箱檢測,提供虛擬的運行環境來分析高風險 或可疑的程式,研判威脅完整的生命周期,協助用戶智 慧地立即偵測出既存與新興的網路威脅。	VMware

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FWB-Base Fortinet 網站應用程式防火牆(WAF) 25Mbps	網站應用程式防火牆(WAF) 25Mbps		Vmware Hyper-V Citrix Xen Open Xen AWS
FWB-100-UG Fortinet 網站應用程式防火牆(WAF) 頻寬升級 100Mbps	網站應用程式防火牆(WAF) 頻寬升級 100Mbps	提供網站應用桯式防火牆功能(WAF), 網貝防置換, 網頁自動備份及回復等功能	
FWB-VM01/VM02/VM04/VM08 Fortinet 網站應用程式防火牆(WAF) (授權方式:依照 CPU 數量 1/2/4/8 四個 授權方式出貨)	網站應用程式防火牆(WAF) 支援 1 CPU		
FAD-Base Fortinet 主機負載平衡系統 (SLB) 1Gbps	主機負載平衡系統(SLB) 1Gbps		VMware
FAD-1000-UG Fortinet 主機負載平衡系統 (SLB) 頻寬升級 1Gbps	主機負載平衡系統(SLB) 頻寬升級 1Gbps	支援網路的主機負載平衡,全球服務負載平衡(GSLB) 及線路負載平衡(LLB)等功能	
FAD-VM01/VM02/VM04/VM08 Fortinet 主機負載平衡系統(SLB) (授權方式:依照 CPU 數量 1/2/4/8 四個 授權方式出貨)	主機負載平衡系統(SLB) 支援1CPU		
FML-Base Fortinet 反垃圾郵件及郵件保全系統 100 人版	反垃圾郵件及郵件保全系統 100 人版		
FML-300-UG Fortinet 反垃圾郵件及郵件保全系統 使用者數量升級 300人	反垃圾郵件及郵件保全系統 使用者數量升級 300人	提供電子郵件王機功能、過濾亚彌截垃圾郵件	VMware Hyper-V Citrix Xen KVM
FML-VM01/VM02/VM04/VM08 Fortinet 反垃圾郵件及郵件保全系統 (授權方式:依照 CPU 數量 1/2/4/8 四個 授權方式出貨)			
FAC-VM-Base Fortinet 身份認證系統 (Authenticator) 100 人版 (Authenticator) 100 人版		整合 RADIUS、LDAP 伺服器,提供標準及安全的雙因子	VMWare
FAC-VM-100-UGFortinet 身份認證系 統 (Authenticator) 使用者數量升級 100 人	身份認證系統(Authenticator) 使用者數量升級 100人	認證	Hyper-V