

# SANGFOR ADC (Application Delivery Controller) Datasheet

Sangfor Application Delivery Controller provides comprehensive load balancing solution for datacenters; including multiple datacenter, link controller and server load balancing. By converging server performance optimization, one-side acceleration and intelligent management, the product enables real-time status monitoring for data center, network and servers. Selected by Gartner Magic Quadrant for over five consecutive years, Sangfor application delivery has provided service to more than 3000 high-end customers.



## Converged Load Balancing

- ▶ **Comprehensive Functions:** Global server load balancing, link controller and server load balancing are consolidated.
- ▶ **Extraordinary Cost Effective:** Three load balancing functions are embedded in one device without additional authorization; and SSL acceleration, HTTP caching, HTTP compression are available without additional cost.
- ▶ **Future-Prove:** Virtualized ADC is compatible with Sangfor HCI, VMware, Xen hypervisor for virtualized infrastructure. It also provides a API to connect with cloud platform including OpenStack and CloudStack. It is ideal solution for cloud infrastructure.

## Agile and Intelligent

- ▶ **One-Side Acceleration:** Unique function in the industry for user speed acceleration without installing plug-in software.
- ▶ **Intelligent Business Analysis:** Sangfor application delivery enables status monitoring for network connection and application performance in datacenter. The associated application related statistics provide complete visibility in the health and performance of your apps for faster troubleshooting and more effective optimization.
- ▶ **Intelligent Optimization:** A series of technology containing DNS transparent proxy, link/server congestion protection, adaptive intelligent routing and message/email warning to increase the overall performance and efficiency of the infrastructure as well as improving end-user experience.

## Your Future-Proof IT Enabler

### Sangfor Technologies

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Series							
Model	AD-1600	AD-1800	AD-1900	AD-2000	AD-2200	AD-4000	AD-5000
Throughput	1.5Gbps	2Gbps	2Gbps	5Gbps	8Gbps	10Gbps	15Gbps
Max Concurrent Session	2,000,000	2,800,000	3,200,000	3,600,000	3,600,000	10,000,000	10,000,000
L4 New Session/sec	80,000	100,000	110,000	130,000	150,000	250,000	300,000
L7 New Session/sec	30,000	40,000	40,000	50,000	60,000	130,000	150,000
SSL Acceleration	√	√	√	√	√	√	√
Port	6*GE electrical	6*GE electrical	6*GE electrical 2*GE optical	6*GE electrical 2*GE optical	6*GE electrical 4*GE optical	6*GE electrical 4*GE optical	6*GE electrical 4*GE optical 2*10GE optical
Height	1U	1U	1U	2U	2U	2U	2U
Power Supply	Single	Single	Single	Single	Redundant	Redundant	Redundant

Series						
Model	AD-6000	AD-7000	AD-8200	AD-9000	AD-10000	AD-12000
Throughput	20Gbps	30Gbps	50Gbps	80Gbps	90Gbps	100Gbps
Max Concurrent Session	23,000,000	46,000,000	46,000,000	70,000,000	70,000,000	70,000,000
L4 New Session/sec	350,000	500,000	800,000	1,000,000	1,300,000	1,800,000
L7 New Session/sec	200,000	200,000	220,000	250,000	300,000	400,000
SSL Acceleration	support	support	support	support	support	support
Port	6*GE electrical 4*GE optical 2*10GE optical	8*GE electrical 4*GE optical 2*10GE optical	4*GE electrical 4*GE optical 2*10GE optical	4*GE electrical 8*GE optical 2*10GE optical	4*GE electrical 8*GE optical 2*10GE optical	4*GE electrical 8*GE optical 2*10GE optical
Height	2U	2U	2U	2U	2U	2U
Power Supply	Redundant	Redundant	Redundant	Redundant	Redundant	Redundant

*The specification is for reference only !*

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## Function List

	Detail
Deployment and management	Supporting routing mode, bypass mode ( on a stick / multiple stick / triangle )
	Supporting hot backup and cluster deployment, as well as multiple modes of high availability including A/A,A/S and M+N
	Supporting multiple virtual AD deliveries in one physical device
	Customizing alarm system and user-defined warning event for network and applications , sending warning message and email automatically
	Supporting HTTPS login, user role management , multilevel authorization management; supporting SNMP management, SSH CLI and centric unified management
	Intelligent DNS resolution; multiple record type supported including intranet, A, CNAME, MX and TXT
	Variety of load balancing algorithm: round robin, weighted round robin, weighted Least-Connection, hashing, Priority, Overflow , Lowest Latency etc.
	Round-robin DNS , multiple IP addresses are associated with a single domain name
	Dynamic routing protocol including RIP v1, RIP v2, OSPF
	Supporting intelligent routing and customizing load controller: outbound link optimization based on domain name, and customized intelligent routing time
	Simultaneous load balancing of inbound and outbound traffic
	Supporting congestion control and DNS transparent proxy
	One-side acceleration for user to accelerate access speed without installing any plug-in program or software
	ISP option optimization supported by dynamic network proximity analysis and static address proximity analysis
	Variety of health monitoring on link and failover of link flow
Application Load	L4/L7 Content-aware switching and load balancing, and being able to be deployed as multiple virtual services for separate applications
	Supporting server smooth on-line and off-line, eliminating server overload by limiting maximum access and maximum concurrent session in server
	Complete health monitoring based on SNMP, PICMP, UDP, TCP, DNS, RADIUS, HTTP, database(MYSQL/MSSQL/Oracle) and customized strategy
	Passive health checking based on TCP and HTTP and detecting failed server by service flow
	TCP monitoring for enabling server overload prevention

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<b>Application Load</b>	Surge prevention and connection queuing in balancer cache if server is over load
	Optimization in web picture transmission without accuracy decay
	Advanced strategy including HTTP request/response rewrite, HTTP/HTTPS request match, automatic page forwarding, page abandoning
	SSL acceleration, HTTP compression, RAM caching, TCP connection reuse for speeding user access and reducing hardware cost
	Variety of load balancing algorithm: round robin, weighted round robin, weighted Least-Connection, hashing, fastest response, Priority, UDP forced offload, Lowest Latency
	Enabling sticky sessions by resource IP, Cookie(insert/passive/rewrite) HTTP (Header/ Body), RADIUS, SSL Session ID
	Complete monitoring on key performance of Oracle, SQL Server and Weblogic middleware and visibility on performance analysis
	Load balancing for Oracle and Mysql database and improving database server resource use
	Vulnerability scan for web server and detecting potential threat with vulnerability repository
<b>Global load</b>	Protecting against a broad spectrum of threats, including CC attack, slowloris and latest distributed denial-of-service (DDoS)
	Variety of load balancing algorithm: round robin, weighted round robin, weighted Least-Connection, hashing, fastest response, Priority, static/dynamic proximity, rejection and abandoning
	Configuration synchronization for all or partial devices and agile configuration restoration
	Support configuration roll back
	Statistics of access frequency in multiple data center and in LDNS
<b>Intelligent analysis</b>	Visibility into the analysis report in remote data center
	Statistics of utilization ratio and application in links ( downline and upline )
	Statistics of the application connection and application IP access in multilink
	Statistics of traffic flow , new connection and concurrent connection of node and node pool
	Statistics of link stability and server stability and enabling server failure analysis

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