

# VIRTUAL AND PHYSICAL ALOHA APPLIANCES



The ALOHA Load Balancer Rackmount Appliances are designed for companies looking for a dedicated system to ensure efficient load distribution of application streams and to guarantee the availability of their critical or strategic servers.

## LOAD DISTRIBUTION

- Support for all types of protocols
- Distribution of requests towards specific servers according to their contents (content switching)
- Cookie-based persistence management and session monitoring
- SSL offloading
- Full IP support / IPv6-ready
- Direct Server Return
- Numerous load distribution algorithms, applicable per group of balanced servers
- Support for Web Services and WebSockets
- URL redirection

## HIGH AVAILABILITY

- Continuous monitoring of servers
- Graceful server shutdown
- Overload protection
- Interaction with external routers by route announcement
- Unlimited number of servers per group
- Persistence information shared between nodes



## HARDWARE MODELS

Model Features	ALB3200	ALB5200
Hardware Type	Rack 1U	Rack 1U
Power Supply	1	2 (dual)
Network Interfaces	6 x 1 Gb/s	8 x 1 Gb/s + 2 x 10 Gb/s
Supported Licenses	Office, 2K, 4K, 8K	8K, 16K, 32K, 64K
Layer 7 Max Bandwidth	3 Gb/s	10 Gb/s
Layer 7 Max HTTP Conn/s	8,000	64,000
Layer 7 Max Req/s (Keep-Alive)	40,000	388,000
TLS 1.2 Max RSA-2048 Key/s	200	3,500
TLS 1.2 Max TPS	2,400	16,000
TLS 1.2 Max Req/s (Keep-Alive)	20,000	285,000
TLS 1.2 Max Bandwidth	800 Mb/s	10 Gb/s
Compression Max Bandwidth (input)	800 Mb/s	6 Gb/s
Layer 4 Conn/s	14,000	200,000
Layer 4 DSR Max Conn/s	40,000	660,000
Layer 4 NAT Max Conn/s	22,000	440,000
Packet Flood Protection Bandwidth	1 Gb/s	10 Gb/s
Packet Flood Protection Packets/s	1.4 Mpps	20 Mpps

## AVAILABLE LICENSES

Licenses	Office	2K	4K	8K	16K	32K	64K
Layer 7 Connections HTTP/s	1K	2K	4K	8K	16K	32K	64K
Layer 7 Concurrent Connections	5K	10K	20K	40K	80K	120K	160K
SSL TPS (TLS 1.2)	300	600	1,200	2,400	4,000	8,000	16,000
Layer 4 Connections/s	3,700	7,500	18,000	40,000	60,000	120,000	200,000
Hardware Type	ALB3200	ALB3200	ALB3200	ALB3200 ALB5200	ALB5200	ALB5200	ALB5200

## INTEGRATION AND ADMINISTRATION

- VLAN support (802.1g), multi-site VPN (IPSec or SSL)
- Bridging and aggregation of interfaces
- Integration in transparent proxy mode
- Advanced monitoring and journaling: status of services and applications, connection details, activity statistics
- Web or CLI management interface (SSH or serial port access)
- Tools for malfunction diagnostics
- Multi-level management (supervision and configuration)
- Support of Syslog, SNMP, VRRP and NTP standards API
- Support for scriptable configuration
- Simplified management and integration of SSL certificates

## VIRTUAL APPLIANCES

Licenses	1K	2K	4K	8K*	16K*	30K*	50K*
Layer 7 Connections HTTP/s	1K	2K	4K	8K	16K	30K	50K
Layer 7 Concurrent Connections	5K	10K	20K	40K	80K	120K	160K
SSL TPS (TLS 1.2)	300	600	1,200	2,400	4,000	8,000	16,000
Layer 4 Connections/s	3,700	7,500	18,000	40,000	60,000	120,000	200,000
Recommended Hypervisors	All	All	All	All	All	Hyper-V vSphere	vSphere
Recommended Memory	1G	2G	2G	2G	2G	4G	8G
Min vCPUs	1	1	1	2	2	2 to 4	2 to 4

\*Performance strongly depends on the hypervisor

## APPLICATION PERFORMANCE

- Unlimited number of servers per virtual service
- Management of server logs in offload mode
- TCP/HTTP acceleration by means of buffering
- Dynamic control of connections open to a server
- Management of connections open to a server
- Filtering of useless HTTP requests
- Quick release of connections
- HTTP compression
- Advanced reporting of response times per server and application

## APPLICATION SECURITY

- DDoS Protection
- Bot Protection
- Protocol validation
- Blacklist/whitelist management
- ACL management
- Protection of select URL's
- Prevention of information leaks
- Filtering of HTTP/HTTPS requests and responses
- SSL information available via HTTP headers
- Management of SSL client certificates
- Behavioral analysis
- Protection against brute force attacks



### WE WOULD LOVE TO HEAR FROM YOU

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