

# 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                     |
| Network Interfaces                | 6 x 1 GB/s         | 8x 1 Gb/s + 2x 10Gb/s |
| Supported Licenses                | Office, 2K, 4K, 8K | 8K, 16K, 32K, 64K     |
| Layer 7 Max Bandwith              | 3 Gb/s             | 20 Gb/s               |
| Layer 7 Max HTTP conn/s           | 12K                | 128K                  |
| Layer 7 Max req/s (Keep-Alive)    | 30K                | 300K                  |
| TLS 1.2 Max RSA-2048 key/s        | 0.2k               | 2.5K                  |
| TLS 1.2 Max TPS                   | 3.2K               | 25K                   |
| TLS 1.2 Max Req/s (Keep-Alive)    | 20K                | 220K                  |
| TLS 1.2 Max Bandwith              | 800 Mb/s           | 20 Gb/s               |
| Compression Max bandwidth (input) | 800 Mb/s           | 6 Gb/s                |
| Layer 4 DSR Max conn/s            | 40K                | 480K                  |
| Layer 4 NAT Max conn/s            | 22K                | 220K                  |
| Packet Flood Protection Bandwith  | 1 Gb/s             | 10 Gb/s               |
| Packet Flood Protection Packets/s | 1.4 Mpps           | 14 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 | 40K    | 10K  | 20k  | 40K       | 80K  | 120K | 160K |
| SSL TPS (TLS 1.2)              | 1K     | 0.6K | 1.2K | 2.4K      | 4K   | 8K   | 16K  |
| Layer 4 Connections/s          | 18K    | 7.5K | 18K  | 40K       | 60K  | 120K | 300K |
| Hardware Type                  | 3200   | 3200 | 3200 | 3200/5200 | 5200 | 5200 | 5200 |

## INTEGRATION AND ADMINISTRATION

- VLAN support (802.1g), multi-siteVPN (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)              | 0.3K | 0.6K | 1.2K | 2.4K | 4K   | 8K                 | 16K     |
| Layer 4 Connections/s          | 3.7K | 7.5K | 18K  | 40K  | 60K  | 120K               | 300K    |
| Recommended Hypervisors        | All  | All  | All  | All  | All  | Hyper-V<br>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 SECURITY

- Protection against DoS
- DDoS Protection
- Bot Protection
- Protocol validation
- Blacklist/whitelist management
- ACL management
- URL restriction
- 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

## 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