Features

High performance L4/L7 load balancing
38 Gbps throughput, 351,298 HTTP RPS, maximum of 31,200,000 connections, and 7,047 SSL TPS.

Active/passive with seamless failover
Gain high availability and resilience by combining two units as a clustered pair.

Health checking
Ensure intelligent, real-time traffic distribution by monitoring the health of your servers.

Session persistence
Maintain user connections to specific servers, based on your parameters - including Source IP and Cookie insertion.

Industry-leading support
Get a direct line to our specialist team, with 3 years hardware warranty as standard.

Loadbalancer.org > Enterprise 40G DATASHEET

Get full infrastructure scalability with the Enterprise 40G from Loadbalancer.org. Offering 38Gbps throughput and over 7,000 SSL transactions per second (TPS), your load balancer is ready to take you into the future. This high-end application delivery controller (ADC) is certified for a range of Microsoft applications and comes with a built-in web application firewall (WAF) as standard.

Keep your business-critical applications up and running 24/7. With 16GB of RAM, Quad Core Intel Xeon CPU and a 40GbE adapter, the Enterprise 40G is key to your high-availability (HA) strategy.

Choose Business Hours or Premium 24/7 support, and select from a full suite of onsite hardware warranty options. Our industry-leading expert team are dedicated to keeping your services online, around the clock.

The Enterprise 40G delivers performance and scalability for your application - and the peace of mind you deserve.
Product Overview
Meet the demands of Ultra HD Video transport and Enterprise Storage applications with backbone matched speeds. The Enterprise 40G is ideal for high throughput networks and performance lab environments.

Hardware Platform
- 2 X 10/100/1000Mbps Auto-negotiation Ethernet ports
- 2 x 40Gbps ports on a Melanox QSFP
- Full duplex support at both 10, 100, 1000 and 40,000 Mpbs
- 16Gb DDR RAM
- Quad Core Intel Xeon
- Local console access via VGA, USB, Serial
- Remote console access via SSH
- Dell R240 server based
- CE/FCC Certified, UL Listed, RoHS Compliant

Standard Features
- Server Load Balancing (SLB) for any TCP or UDP based protocol
- SSL Acceleration/Offload
- Layer 7 Content Switching
- No bandwidth, performance or feature limitations
- High performance Direct Routing (DSR, N-Path), TUN, NAT & SNAT
- Schedulers: Round Robin, Least Connection, Weighted Least Connection, Weighted Round Robin
- Dynamic Schedulers: Windows & Linux feedback agents, Custom HTTP feedback option
- Load balance almost ANY protocol i.e. HTTP, HTTPS, SMTP, POP3, IMAP, Terminal Server etc
- Support for Direct Server Return (DSR) configurations
- Configurable S-NAT support
- Link aggregation (802.3ad)
- VLAN Tagging (802.1Q)
- GSLB

SSL
- Hardware SSL Acceleration (AES, up to 256bit)
- Unlimited support for SSL Certificates
- Support for Third Party Certificates
- Automated SSL Certificate Chaining
- SSL Certificate Signing Request (CSR) Generation
- PFX upload and conversion
- Proxy protocol support
- PCI-ready SSL Implementation

Performance
- Up to 38 Gbps Throughput
- SSL Acceleration/Offload up to 7,047 TPS
- 351,298 http page GETs/second
- 31,200,000 Concurrent sessions

L4/L7 Sticky (persistence)
- Connection persistence based on:
  - Source IP address
  - SSL Session ID
  - Passive Cookie
  - Active Cookie (Insert)
  - RDP Cookie / Session Broker
  - X-Forwarded For Header
- Port following (Persistence on multiple combined ports)
- Multiple fallback options i.e. use source IP if no cookie found

Security Functionality
- Fully integrated WAF (Web Application Firewall)
- OWASP top 10 protection
- Persistent White/Black List (Access Control List system)
- Firewall filtering (full iptables scripting support)
- Firewall lockdown wizard
- DDOS mitigation both at Layer 4 & 7
- Virtual patching
- HTTP & SYN Flood protection
- Block SQL Injection Attacks
- Prevent Cross Site Scripting (XSS)
- Stop Hackers Exploiting Software Vulnerabilities
- FIPS 140-2 Compliant
- PCI DSS Ready

Health Checking and High Availability
- Application health checking for DNS, FTP, HTTP, HTTPS, IMAP, NNTP… and many more
- ICMP health checking of server farm machines
- Complex manually scripted health checks
- Automatic reconfiguration for defective real server machines
- Automatic replication of static & dynamic configuration from master to slave load balancer
- Stateful Failover (persistence table replication)
- One click secure clustered pair configuration

Scheduling and Balancing Methods
- Round Robin
- Weighted Round Robin
- Least Connection
- Weighted Least Connection
- Agent-based Adaptive (Windows and Linux Agents)
- Layer 7 Content Switching
- Destination Hash for transparent proxy

Administration
- Secure, SSH, HTTP and HTTPS for remote access administration
- Fully configurable using Web User Interface
- Easy start configuration and maintenance wizards
- WebUI-based Help Assistant
- Virtual Service Configurations can be edited and tuned on-the-fly
- Real time performance and availability displays
- Optionally configure console port for local administration
- Remotely scriptable Command Line Interface (LBCLI) Option
- SOAP interface to the LBCLI API
- Local and Remote syslog support
- Selective restore of physical and Virtual Service data
- Support for connection draining or halting with or without persistence
- Software and Security updates available on & off-line
- WebUI log reporting with tagged browser Support
- SNMP support for performance metrics
- Full root access to with a multitude of diagnostic tools tcpdump etc

Warranty & Support Services
Hardware Warranty:
- 3 Years Next Business Day On-site Engineer included as standard

Support Options:
- Premium 24/7 Support - Unlimited 24/7 access to our Technical Support Engineers
- Business Hours Support - Unlimited support during business hours (8x5)