

# Equalizer Express<sup>®</sup>

Accelerate your Web Applications.  
Improve Web User Experience.



## Features

- Accelerate Web application performance up to 5x
- Offload CPU intensive compression from Web servers
- Fast hardware-based acceleration
- Easy implementation - compresses Web traffic without changes to clients or servers

## Benefits of High Performance Hardware-Based Compression

- Improved end user Web experience
- Faster Web page downloads
- Reduces IT costs – no need for application or server changes
- Reduces bandwidth costs
- Affordable for today's tight IT budgets



## Hardware Web Compression is Fast Compression

Express is a hardware based HTML compression option which adds high performance Web compression and acceleration technology to Equalizer appliances. The end users experience is greatly improved by improving download speeds by up to 5 times. Web compression can create a tremendous load on Web servers and that can mean a significant infrastructure change including the necessity for new high cost servers and more complexity for operations. With Express performing the Web compression entirely on the Equalizer, this eliminates the CPU overhead on web servers. With less data to transmit the TCP/IP burden on the Web server is also reduced saving expensive CPU cycles and increasing application performance.

## No Need To Touch Existing Infrastructure

Transparent to applications and users, the Express option is an easy way to achieve remarkable acceleration with minimal hassle. Changing infrastructure can be difficult, time consuming, and costly. With the Express Web compression administrators don't need to change a thing. Express is transparent to application servers and standard Web browsers automatically support Express's Web compression without any need for plug-ins or upgrades. And it's transparent to application servers.

## Bandwidth costs are drastically reduced

The Express lowers the peak and average bandwidth requirement by a factor of four reducing bandwidth costs proportionately. Return on Investment can be achieved in weeks.

## Coyote Point Delivers Affordable Application Availability and Acceleration

Coyote Point offers a range of application availability and application acceleration solutions that keep your business running – including the Equalizer load balancing appliances Express Web compression, Xcel SSL acceleration and Envoy Global Load Balancing. No matter what application, email or Web services you utilize, Coyote Point specializes in affordable Application Availability and Application traffic management solutions that keep your small to midsize business performing at peak efficiency.



## Compress Web Objects for Faster Page Downloads

### Improve End-user Experience 5x While Reducing Bandwidth Costs

Express's Web compression technology, based on the deflate algorithm commonly seen in Gzip and WinZip, compresses Web content up to a factor of 5x. This means if a file normally takes 60 seconds to download, an end user may see the same file in as little as 12 seconds! And if a file is now 5x smaller that means 5 x less bandwidth was used as well – a huge difference when it comes to calculating monthly operating costs.

#### Real Web Site Test Examples:

##### Measured Download Speed:

- Hotmail: 2.31x
- Ebay: 1.62x
- Google: 2.21x

##### Compression Ratio Bandwidth Reduction:

- Hotmail: 3.96
- Ebay: 5.8
- Google: 3.72

### Easy Implementation using Open Standards

The GZIP algorithm is an open standard lossless compression algorithm for HTML files (RFC 19521). GZIP will also compress SHTML, DHTML, JHTML, PHTML, JavaScript, JSP and other similar files. Contemporary browsers seamlessly decompress GZIP compressed files sent from the host. The ability for standard browsers to support GZIP decompression provides significant advantages over proprietary algorithms because no changes are needed in the client's browser. High throughput hardware compression allows data to be sent efficiently over communication links. The end-users will experience enhancements via faster page downloads and prevention of incorrectly rendered pages and stalled browsers. All current browsers support GZIP decompression so performance is improved while bandwidth requirements are reduced, all without impacting IT resources and support requirements.

### Let us hear from you.

An industry pioneer, Coyote Point has been at the forefront of acceleration since 1999. Our award-winning, high-availability, high performance application load balancing products offer all the acceleration you'll ever need.

For more information, contact your local reseller, visit [www.coyotepoint.com](http://www.coyotepoint.com) or call (877) 367-2696.

## Equalizer Express® Specifications

### Data Compressed

- HTML
- JavaScript
- Office Document
- Executables (.Exe)
- XML
- CSS
- PDF

### Compression Algorithm

GZIP

### Performance

Compression throughput: 1 Gb/s

### Browsers Supported

Netscape 4.07 and higher  
Internet Explorer 4.72 and higher  
All Firefox/Mozilla  
All Opera

### Power Consumption

+3.3V: 785 mA (Typ)/1.1 A (Max)  
+5 V: 200 mA (Typ)/250 mA (Max)

### Bus Type

PCI-X 2.0 Mode1 compliant (66 MHz, 64 bit)  
Backward Compatible with PCI r2.3 (up to 33MHz)

### Operating Environment

Ambient Temperature: 5-45°C  
Humidity: 5% - 85% (non-condensing)

### Dimensions

Form Factor: Low profile PCI-X, MD1 card  
Length: 163.09mm  
Height: 45.00mm  
Note: above dimensions are for the PCB only and do not include the bracket

### The Express is available on the following Equalizer appliances:

- E350si-R
- E450si-R
- E550si-R