

## About AEP Systems

AEP Systems, the high-speed security company, delivers hardware security and acceleration solutions that are fast and cost-effective to deploy. Customers include financial institutions, government bodies, healthcare organizations, and OEMs. Founded in 1998, AEP Systems is privately held and based in Dublin, Ireland with offices in the UK, USA and Asia-Pacific.

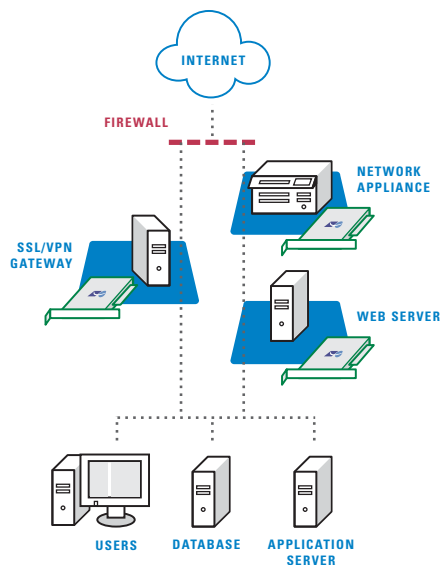


## AEP SureWare Runner 1000/2000

The continued evolution of the Internet has resulted in the need for higher bandwidth connectivity and increasingly sophisticated services. Growth in the number of e-Commerce enabled Web servers and the proliferation of online transactions has further increased the demand for high-level security. In order to guarantee true security for these transactions, most e-Commerce Web servers use the Secure Sockets Layer (SSL) protocol. SSL is the most widely implemented security protocol on the Internet today.

The large processing requirements associated with SSL can cause standard transaction servers to slow to a crawl, frustrating the customer and losing valuable business. The solution to address this problem is to add an AEP SureWare Runner SSL acceleration card to your server. Adding an AEP SureWare Runner can boost the server performance by a factor of 12. As an added bonus, it frees up valuable computer processing unit for other application-specific activities.

## Configuration Diagram



## Solution

Offering performances of 1000 and 2000 (1024-bit) SSL transactions per second, AEP SureWare Runner (1000 and 2000) is the fastest SSL accelerator range available. By fully off-loading all compute-intensive cryptographic functions from a server, an AEP SureWare Runner 1000 or 2000 eliminates bottlenecks and maximizes e-Business capacity.

## AEP SureWare Runner Options

- Performance 1000 or 2000 TPS
- Form Factors PCI, PMC or Low Profile PCI
- Random number generation - PCI only

## Application Areas

AEP SureWare Runner 1000 or 2000 range is suitable for the following:

- SSL e-Commerce Web/Blade Servers
- Telecommunications
- Electronic Data Interchange
- Financial Applications

## AEP SureWare Runner 1000/2000 Benefits:

### Best-in-Class Price and Performance

- Alleviates bottlenecks, freeing servers to process more transactions, up to 2000 SSL TPS
- Reduces the number of servers required, delivering lower cost of ownership
- Improves response time and enhances customer experience
- Allows more applications to be delivered to the Web and provides a greater return on investment

### Plug & Play

- Easy-to-deploy and install
- Support for a wide range of operating systems, applications, industry standard APIs and form factors

### Scalability / Failover

Multiple cards are supported and failover to software is provided offering suitable solutions for 24 x 7 operation

## Technical Specifications

### System Support

Applications: Microsoft.Net (IIS, ISA)  
APIs: OpenSSL, PKCS#11, Microsoft CryptoAPI  
OS: Windows (2000, XP, .NET), Solaris, HP-UX,  
Linux (RedHat, Debian, Mandrake, Suse), FreeBSD  
Form Factors: PCI 2.2, PMC

### Cryptographic Functions Supported

- RSA, DSA, DH
- Key lengths scalable up to 4096-bits for asymmetric operations
- RNG – 1MB/s

### Regulatory Standards Compliance

EMC: EN55022 Class B, EN55024  
FCC: CFR47 Part 15, Class B  
Safety: UL 1950

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