

## PRODUCT DESCRIPTION

The DH150Ke is a PCI Express module designed to efficiently offload XML and crypto processing tasks from the main server/appliance CPU. It is optimised to provide a balanced solution addressing the bottlenecks and security issues that arise when dealing with large volumes of XML and Web Services traffic. XML acceleration is an essential component of high performance Web Services Gateways, XML Firewalls, and Web Services Application Servers. Specifically, the DH150Ke accelerates XML parsing, XPath expressions, WSS (Web Services Security) and SSL functions simultaneously.



## FEATURES & BENEFITS

### Ultra-High Performance

- The combination of Dajeil's XML Parallel Processor and a Crypto Processor provides a unique architecture, delivering orders of magnitude performance increase over software only solutions.

### Where the DH150Ke excels!

- **Parallel Processing** of multiple SOAP messages/XML Documents.
- **Parsing** - Well-formedness and character encoding checked before DOM creation.
- **Fast Random Access** to XML element names, attributes and content.
- **Accelerated XPath** - XPath expressions are evaluated during parsing with results available on completion of parse.
- **WSS Encryption/Decryption/Sign/Verify**
- **SSL acceleration** of OpenSSL and Sun JCE.

### Enhanced Security

- The DH150Ke is an embedded design, therefore more immune to attack than software only solutions.

### An Essential ingredient for XML and WSS intensive applications

- Frees up cycles in Server's main CPU for other processing functions
- Boosts Server performance in the critical areas of XML and SOAP message processing (validation, filtering, transformation etc.) and Security.
- Overall benefit to Server is increased throughput and security.

### Ease of Integration

- Java applications can use Dajeil's acceleration through the standard JCE, JAXP DOM and XPath interfaces
- The kit also includes an SDK with simple APIs and standard software components for Java and C
- Operating System support includes Linux (2.4 and 2.6)
- Standard low profile PCIe card (plug and play) for easy installation.
- XML and Web Services Standards conformance ensures Interoperability.

## SPECIFICATIONS

### General

Low profile PCI Express x8 card fitting most rack servers and appliances

### Performance

XML Parsing	2 Gbps
XPath	2 Gbps
Crypto	1,500 2048-bit (or 11,000 1024-bit) RSA operations per second

### Interfaces and Management

Bus type	PCI Express 8-Lane
OS Support	Linux 2.4, 2.6
Java API support	DOM, JCE, Dajeil API
C API support	OpenSSL, Dajeil API

### Environmental

Operating temperature: 5 - 45 degrees centigrade  
Operating Humidity: 85% at 45 degrees centigrade  
Power consumption: 10 Watts

### Approvals

CE Mark, UL, FCC class A

*\* All registered trade marks are respected*

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*Set up in 2003, Dajeil has become synonymous with a commitment to excellence, innovation and quality. Today, XML and Web Services Servers are being installed by major blue chip companies in Europe, U.S.A. and the Far East. We are building our name in some of the toughest and most technically demanding markets in the world.*