



COMPREHENSIVE EMAIL  
ENCRYPTION PLATFORM.  
PROVEN, ENTERPRISE-  
CLASS SCALABILITY AND  
RELIABILITY.

## IronPort Encryption Appliance

### OVERVIEW

The *IronPort Encryption Appliance*™ is the most comprehensive email encryption gateway on the market. Whether driven by compliance requirements, improving customer/partner trust, or protecting intellectual property, the *IronPort Encryption Appliance* provides the flexibility and scalability to support all secure messaging requirements on a single platform — making it the ideal email solution for data leakage prevention.

Regular email is not a secure or confidential communication medium. The *IronPort*

*Encryption Appliance* is an easy-to-deploy solution to protect email, while remaining transparent to senders and offering the easiest-to-use secure delivery methods for all recipients. A complete portfolio of secure delivery methods, integrated key management, and the power of business-class email provide the comprehensive functionality necessary to protect email in even the most complex enterprise environments.

### FEATURES

#### SECURE DELIVERY METHODS

The *IronPort Encryption Appliance* offers a wide range of options for secure message delivery, providing the flexibility to support all email encryption requirements. Delivery methods may be automatically selected, by policy, for each message recipient.

**IronPort PXE Encryption**™ is a highly secure, envelope-based “push” technology which combines universal reach, ease-of-use and the lowest Total Cost of Ownership (TCO) of any email encryption technology. Encrypted messages can be received by any email user — independent of email client or operating system — without installing any software or requiring the sender to pre-exchange encryption credentials with the recipients.

**IronPort Secure Mailbox**™ is a secure “pull” or webmail technology. *IronPort Secure Mailbox* securely stores messages behind the enterprise firewall and allows recipients to access them online via a secure website.

Recipient authentication as well as message retrieval and composition are secured using SSL (HTTPS). Recipients can be notified via email when new messages are available. *IronPort Secure Mailbox* supports a full set of Web-based email features including inbox, folders and address books.

**IronPort Public Key Encryption**™ provides support for S/MIME and OpenPGP encryption, signing and decryption, allowing organizations to leverage existing S/MIME and public key infrastructures in a system that also incorporates other IronPort® secure delivery models. *IronPort Public Key Encryption* supports both gateway-to-gateway and gateway-to-user models, utilizing standard PKI certificates (X.509 v3) and OpenPGP asymmetric keys. This feature also provides advanced certificate harvesting, proxy key generation, and other specialized key management functionality — including the ability to integrate with popular certificate authorities and key directories.



## FEATURES (CONTINUED)

### BUSINESS-CLASS EMAIL

In addition to securing email content, *IronPort PXE Encryption* and *IronPort Secure Mailbox* technologies enhance visibility and control over email. Due to limitations of the underlying standards, these features are not available for *IronPort Public Key* delivery.

**Guaranteed read-receipts** enable users to know exactly when a message was viewed by each recipient.

**Message expiration and locking** prevent mistakenly-sent messages from being opened and automatically secures old messages. Messages may be locked at any time, keeping the message from ever being opened again.

**Large attachment handling** seamlessly and securely delivers email attachments, which can clog groupware servers. Attachments above a configurable threshold are stripped from outbound email messages, stored securely on the *IronPort Encryption Appliance*, and replaced in the email message by a link which allows the recipient to retrieve the attachment in a more user-friendly fashion than secure FTP or other common alternatives.

### INTEGRATED KEY SERVER AND MANAGEMENT\*

The *IronPort Encryption Appliance* integrates all required functionality to manage

recipient registration, authentication, and per-message encryption keys for both *IronPort PXE Encryption* and *IronPort Secure Mailbox* technologies.

**Authentication and key delivery** is typically via a password. Multiple-factor, chained and single sign-on authentication methods are also supported for advanced applications. On successful authentication of a recipient, the key for that message is released (with *IronPort PXE Encryption*) or access to the recipient's secure webmail account provided (with *IronPort Secure Mailbox*).

**Enrollment management** is enabled for first-time recipients as they are guided through a single screen enrollment, creating an account on the key server. This account may be used to receive any future messages. Recipients may also be pre-enrolled, or an existing directory (Active Directory/LDAP) used, to provide credentials. First party (recipient), second party (sender) or third party authorization can be configured to prevent automated or man-in-the-middle attacks.

**Message Management** is provided by *IronPort PXE Encryption* and *IronPort Secure Mailbox*. These advanced business-class email features, including message locking/expiration and guaranteed read-receipts, are accessed via a Web user interface by both individual users and authorized administrators – displaying status and enabling locking of individual messages.

## BENEFITS

**Ensure Compliance** Guarantee that sensitive messages are handled in compliance with regulatory legislation, such as HIPAA, SOX, GLB, PIPEDA and the European Union Data Directive.

**Foster Customer and Partner Trust** Raise the levels of service to customers and partners, illustrating commitment to keep business transactions and communications confidential.

**Protect Intellectual Property** Safeguard sensitive business information and intellectual

property contained in email outside the firewall — both in transit on the Internet and in storage on destination email servers.

**Improve Customer Service** Communicate securely with customers using the channels that they prefer.

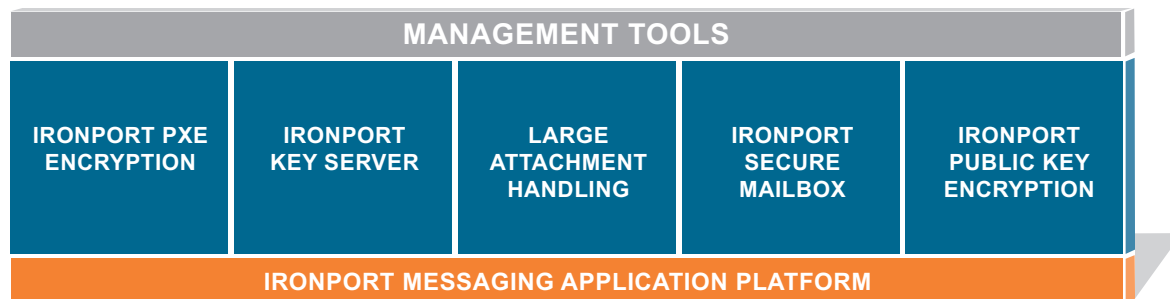
**Business-Class Email** Enable a new class of email, leveraging the *IronPort PXE Message™* to access unprecedented visibility and control over email.



\* Functionality also available from the Cisco Registered Email Service.

**FIGURE 1.**

The *IronPort Encryption Appliance* provides a turnkey, enterprise-class email encryption solution. Multiple secure delivery methods offer the flexibility to meet diverse business needs, while integrated management and authentication simplify deployment.



## SPECS

### CHASSIS / PROCESSOR

Form Factor	19" Rack-Mountable, 2U rack height
Dimensions	3.5" (h) x 19" (w) x 29" (d)
CPU	One Intel Multi-Core Processor
Power Supplies	Hot-plug redundant, 750 watts, 100/240 volts

### STORAGE

RAID	RAID-1 configuration; dual-channel hardware with battery-backed cache
Drives	Two hot-swappable, 146 GB serial attached SCSI
Capacity	70 GB queue capacity, 110 GB discretionary capacity (reporting data, logs, configuration, archives)

### DATABASE

Onboard	PostgreSQL database
External	Oracle, Microsoft SQL Server, IBM DB2

### CONNECTIVITY

Ethernet	Two Broadcom Gigabit BaseT Ethernet ports
Serial	One RS-232 (DB-9) serial port

### INTERFACES/CONFIGURATION

Web Interface	Accessible via HTTPS
Command Line Interface	Accessible via SSH or Telnet; Installation Wizard or command-based
File Transfer	SCP or FTP
Configuration Files	XML-based configuration files archived or transferred to cluster

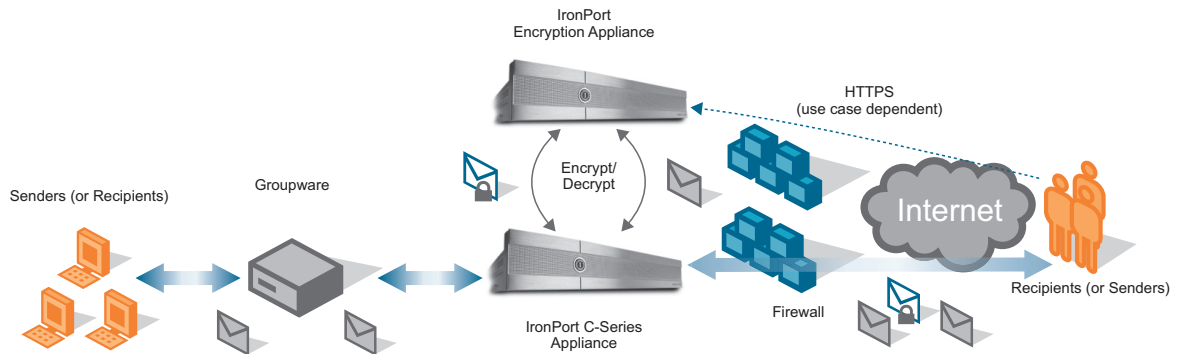
### CRYPTOGRAPHIC ALGORITHMS

Message encryption	ARC4 (160 bit), AES (192 bit), 3DES
HTTPS	ARC4



## DEPLOYMENT

The *IronPort Encryption Appliance* acts as a companion to the *IronPort C-Series*™ email security appliance — encrypting and decrypting messages, based on policies defined on the *IronPort C-Series*.



## SUMMARY

As proven by an unmatched list of success stories in the Global 2000, the *IronPort Encryption Appliance* is the only secure messaging gateway flexible enough to meet the evolving secure communications requirements of businesses today. Universal

reach, flexible delivery methods, and enterprise-class scalability and reliability enable expanded use of the Internet as an efficient, reliable, and low-cost channel for continued growth.

## CONTACT US

### HOW TO GET STARTED WITH IRONPORT

IronPort sales representatives, channel partners and support engineers are ready to help you evaluate how IronPort products can make your infrastructure secure, reliable and easier to manage. If you believe that your organization could benefit from IronPort's industry-leading products, please call 650-989-6530 or visit us on the Web at [www.ironport.com/leader](http://www.ironport.com/leader)



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IronPort Systems, a Cisco business unit, is a leading provider of anti-spam, anti-virus and anti-spyware appliances for organizations ranging from small businesses to the Global 2000. IronPort appliances utilize SenderBase, the world's largest email and Web threat detection network and database. IronPort products are innovative and easy-to-use—providing breakthrough performance and playing a mission-critical role in a company's network infrastructure.

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