



## PRODUCT SPECIFICATIONS

# Ingrian DataSecure 400 Series Appliance

## Unparalleled Performance, Availability, and Security

For those looking to implement encryption of sensitive data in the enterprise, products from Ingrian® represent a comprehensive solution for deployment throughout your network. Ingrian DataSecure® offers the highest level of security available in a commercial solution that features breakthrough performance, high availability, and streamlined implementation. With DataSecure, organizations can now enjoy:

- + Optimal security through an appliance that meets the highest standards of security certification, robust cryptography, and centralized key and policy management.
- + Maximum performance and availability through an appliance that offers the highest levels of throughput and responsiveness available.
- + Streamlined implementation through a single solution that features broad infrastructure coverage, and application transparency.

DataSecure delivers capabilities for field, column and file-level encryption. Seamless integration and centralized key and policy management—enabling organizations to deploy an end-to-end encryption strategy with unparalleled ease and cost effectiveness. With its capabilities for encryption of sensitive data in Web servers, application servers, databases, file systems, mainframe and distributed environments, DataSecure enables organizations to protect the sensitive data that pose a business or liability risk—whether credit card numbers, social security numbers, or other sensitive information.

DataSecure is comprised of three components:

- + The DataSecure appliance, a dedicated hardware system.
- + Connector software, a software component that is installed on the web server, application server, database, mainframe or file system that interfaces with the DataSecure appliance.
- + The EdgeSecure appliance, a dedicated hardware system optimized for remote locations.

Ingrian offers a variety of configurations, ensuring Ingrian customers get a solution tailored to their specific security, performance, and budget requirements. For enterprises that demand the utmost in security, performance, and availability, Ingrian offers the DataSecure 400 Series appliance.

## Optimal Security

Offering the highest level of security in a commercial encryption solution, the DataSecure 400 Series appliance is compliant with FIPS 140-2 Level 2 and Common Criteria Evaluation Assurance Level 2. DataSecure centralizes all cryptographic processing, key management, logging, auditing, and security policies on a single, hardened appliance, which maximizes overall security.

DataSecure offers a range of robust security features:

- + Capabilities for segregating administrative duties so key controls are shared among multiple administrators.
- + Secure, multi-factor authentication and access control between databases and servers and the DataSecure appliance.
- + Granular authorization capabilities that enable constraints to be placed on user operations based on specific key permissions.
- + Active alerting capabilities so that, if attempts to breach protected data occur, mechanisms are employed to alert administrators.
- + Comprehensive backup and restore functionality and disaster recovery features.
- + Support for AES, 3DES, RSA, HMACSHA-1, and other cryptographic algorithms.

### Ingrian DataSecure 400 Series offers several key advantages:

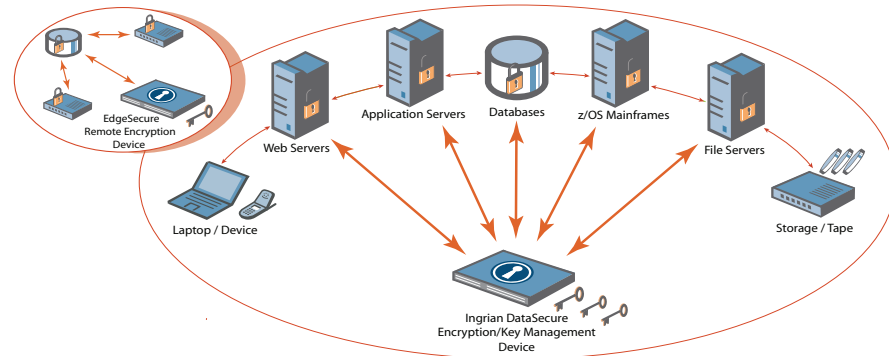
**Optimal security.** Addresses a broad range of threats with capabilities for robust encryption, secure key management, segregation of duties, strong AAA support, and more—all with a FIPS 140-2 Level 2 and Common Criteria EAL2 compliant appliance.

**Maximum performance and availability.** Offloads processing-intensive cryptographic functions from servers, and offers capabilities for processing over 100,000 encryptions per second.

**Streamlined implementation.** Integration is automated and transparent to applications; administration is intuitive; and because all keys and policies are managed on a centralized appliance, ongoing maintenance is streamlined.

## Maximum Performance and Availability

DataSecure centralizes all cryptographic processing on a highly specialized appliance that delivers performance robust enough for the most demanding processing environments. A single appliance can handle over 100,000 encryptions per second, and Ingrian makes it easy, through load balancing capabilities, to add additional appliances and boost scalability as performance needs dictate. Further, by offloading CPU-intensive cryptographic processing from disparate servers and databases, DataSecure restores server and database performance to optimal levels—resulting in less waiting for information and higher resource utilization. Designed specifically for business-critical processing, DataSecure also features replication, RAID support, health checking, and disaster recovery capabilities.



## Streamlined Implementation

With its broad deployment capabilities and infrastructure coverage, DataSecure can be used to manage an entire enterprise's encryption deployment. With DataSecure, implementation is:

- + Transparent to applications—DataSecure can be deployed with complete application transparency, dramatically reducing implementation time and costs.
- + Centralized—by centralizing administration of cryptographic policies and configuration, DataSecure streamlines ongoing administration and reduces cost.
- + Flexible—DataSecure can be integrated wherever an organization's security and business needs dictate, offers support for leading, standards-based cryptographic algorithms; and supports products from a range of third-party vendors.

Ingrian DataSecure is a robust, high performance and high availability platform that can be integrated at the web, application, and database layer. DataSecure offers granular encryption, centralized security management, and seamless, flexible integration.

### Performance

Processes more than 100,000 encryptions per second

Scalable to hundreds of thousands of encryptions per second via clustering of multiple DataSecure platforms

Less than 100 microseconds latency

### Security Algorithms

3DES, DES, AES, RSA (signatures and encryption), RC4, SHA-1, HMACSHA-1

### Asymmetric Key Sizes

512, 1024, 2048

### Symmetric Key Sizes

40, 56, 128, 168, 192, 256

### Certificate Management

Multiple certificates, built-in certificate authority, manage certificate requests, certificate revocation list (CRL) support

### System Administration

Secure Web-based GUI, secure shell (SSH), console

### Network Management

SNMP (v1, v2, and v3), NTP, URL health check, signed secure logs, syslog, automatic log rotation, secure encrypted and integrity checked backups and upgrades, extensive statistics

### Web and Application Servers Supported

BEA, IBM, IIS, Oracle, Apache, Sun ONE, JBoss, SAP, PeopleSoft, and more

### Databases Supported

IBM DB2, Microsoft SQL Server, Oracle, and Teradata

### Mainframes Supported

IBM z/OS

### Enclosure

Form Factor: 1U, rack mountable (Height: 1.7"; Width: 19"; Depth: 30")

### Processors

Intel Quad Core Xenon E5410 processors, 2.33GHz

### Network Interfaces

2 x 10/100/1000 Mbps

### Fans

Eight system cooling fans

### Power Supplies

Dual 670W redundant; 85 - 264 VAC, autoranging, 47 - 63 Hz, 2697 BTU/hr maximum

### Data Storage

Two 3.5" internal hot-pluggable 80GB SATA drives

### Operating Environment

Ambient temperature—operating: 10° to 35°C (50° to 95°F)

Ambient temperature—non-operating: -40° to 65°C (-40° to 149°F) ambient

Humidity—operating: 8% to 85% (noncondensing) with a maximum humidity gradation of 10% per hour  
Humidity—non-operating: 5% to 95% (noncondensing)

Acoustic Noise: 66 decibels

### Product ID:

i430 DataSecure Appliance

**ABOUT INGRAN NETWORKS:** Ingrian Networks brings complete data privacy to the enterprise. With Ingrian DataSecure Platforms, organizations can protect critical data from both internal and external threats, and ensure compliance with legislative and policy mandates for security. DataSecure features a dedicated security appliance and specialized software that enables organizations to encrypt structured and unstructured data in applications, databases, and file servers. With its capabilities for granular encryption, seamless integration, and centralized key and policy management, DataSecure enables organizations to guard against a range of security threats from within the data center and across distributed environments, with unparalleled ease and cost effectiveness. Ingrian is a privately held company backed by such investors as Globespan Capital Partners, HighBAR Ventures, Menlo Ventures, Partech International, and Prism VentureWorks. For more information, visit [www.ingrian.com](http://www.ingrian.com).

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