

Brochure

Protect your data

HP Secure Encryption and HP Enterprise Secure Key Manager



Simple, secure encryption with local or remote key management

Why HP?

- Broad portfolio of security solutions
- High availability and scalability
- Simplified deployment and management
- Helps with compliance regulations like PCI-DSS, HIPAA, and SOX

Industry regulations and good business practices require that the sensitive and private information your organization manages is protected from unauthorized disclosure or theft. HP Secure Encryption is a simple, controller-based disk encryption solution that will help protect this data at rest.

Does the threat of data breaches keep you up at night?

Data loss has the potential not only to interrupt your day-to-day business operations, but leaves you vulnerable to legal liability and negative press. What's more, if you're in the Financial Services, Healthcare, Government, or other regulated industry, you are also responsible to comply with regulations such as the Payment Card Industry Data Security Standard (PCI-DSS), HIPAA, Sarbanes-Oxley (SOX), and a growing array of other data privacy regulations.

Just a few of the types of data that, if lost or compromised, could cause a major problem for your company include:

- Payment card numbers
- Private customer data including health records
- Financial data about your company or employees
- Trade secrets and intellectual property

A simple, effective method for protecting data at rest

HP Secure Encryption is an HP Smart Array controller-based data encryption solution for HP ProLiant Gen 8 servers that protects sensitive data. This is an enterprise-class encryption solution for data at rest on any bulk storage (with the exception of tape or external arrays such as P2000 and MSA2040) and cache memory attached to the HP Smart Array Px3x family of controllers. The solution is available for both local and remote key management deployments. The remote key management deployment requires HP Integrated Lights-Out 4 (iLO4) and HP Enterprise Secure Key Manager (ESKM) 3.1 or later release.

Many companies, especially those subject to industry regulations, require that sensitive data be secured and not compromised. With HP Secure Encryption, you have an extra level of assurance knowing that data cannot be deciphered on the drive without access to the data encryption key. This solution will help you comply with regulations and corporate accountability legislation such as PCI-DSS, HIPAA, and SOX, which have data privacy requirements.

HP Secure Encryption is just one of the solutions in the HP data privacy portfolio, which also includes HP Data Sanitization and HP Defective Media Retention (DMR) services.

Orderable part numbers

HP Secure Encryption

D8S85AAE—HP Secure Encryption E-LTU license

D8S84A—China only HP Secure Encryption one server license

HP ESKM 3.1

C8Z51AA—HP ESKM 3.1 single-node server

C8Z52AA—HP ESKM 3.1 two-node server cluster

HP ESKM 4.0

C8Z61AA—HP ESKM 4.0 single-node server

C8Z61AA—HP ESKM 4.0 two-node server cluster

Solution features and benefits

Broad encryption coverage

- Encrypts the data on the cache module of the HP Smart Array Px3x controller, as well as the attached bulk storage
- Any HDD or SSD in the HP Smart Drive portfolio for HP ProLiant Gen8 servers is supported High availability and scalability
- Easily scales with business data growth
- Local key management mode provides a simple key management solution
- Remote key management mode allows central key management from just a few servers to more than 25,000 servers and millions of keys Simplified deployment and management
- Easy management of the HP Smart Array controller and other storage devices via HP Smart Storage Administrator
- The single management interface of the HP Smart Storage Administrator also provides access to the cryptographic features of HP Secure Encryption Regulatory and legal compliance
- Solutions like HP Secure Encryption and HP Data Sanitization help you comply with industry regulations and legislation such as PCI-DSS, HIPAA, and SOX
- HP ESKM 3.1 has completed FIPS 140-2 Level-2 validation (Certificate #1922)
- HP has applied for FIPS 140-2 Level-2 validation for the Smart Array Px3x family of controllers

Resources

Contact your HP representative or Channel Partner for further information.

HP Core Server

HP Direct Sales

hp.com/large/contact/enterprise/

HP Channel partners

www8.hp.com/us/en/store-finder/index.do

HP ESKM

Web

hp.com/go/atalla



HP ProLiant Gen8 servers



HP Smart Array Px3x controllers



- HP compatible HDDs and SSDs
- HP D2600, D2700, and D6000 enclosures



- HP Smart Storage Administrator
- HP iLO4
- HP Secure Encryption

HP ESKM client license



Solution components

The complete list for local key management mode is the following:

- Compatible HP ProLiant Gen8 servers
 - Blades—BL420c, BL460c, WS460c, BL465c, and BL660c
 - ML Series—ML350e v2 and ML350p
 - Rack—DL320v2, DL360e/p, DL380e/p, DL385p, DL560, DL580
 - SL Series—SL270s and SL210t
- HP Smart Storage Administrator is available at no charge to all HP ProLiant Gen8 server customers; you will need version 1.50 or later
- HP Smart Array Controller
 - For Internal drive connectivity—P430 and P830 (P230i for the BL460c and WS460c)
 - For connection to JBODs—P431 and P731m
- Compatible drives—SAS/SATA hard disk drives (HDDs) and solid state drives (SSDs); see ProLiant QuickSpecs for details.
- Compatible storage enclosures—HP D2600, D2700, D6000
- HP Secure Encryption License (one per encrypted drive)

The complete list for remote key management mode includes:

- All of the components from local key management mode
- HP iLO4 Advanced or Scale Out Edition license (one per HP ProLiant Gen8 server)
- HP ESKM 3.1 or 4.0 (quantity dependent upon the projected number of HP ProLiant server connections and keys, and the desired level of redundancy)
- HP ESKM client license (one per HP ProLiant Gen8 server)

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HP Enterprise Secure Key Manager

HP ESKM provides a complete solution for unifying and automating an organization's encryption controls by securely creating, protecting, serving, controlling, and auditing access to business- and compliance-critical encryption keys.

HP ESKM is designed as a fully-integrated solution and is a Federal Information Processing Standards (FIPS) 140-2 validated secure server appliance. Standard capabilities include high availability clustering and failover, a secure key database, key generation and retrieval services, identity and access management for administrators and encryption devices, secure backup and recovery, a local Certificate Authority, and strong audit logging for compliance validation.

HP ESKM supports a growing range of HP server and storage products, partners, and solutions for data protection. A client-side software developer kit is available to HP partners and customers to enable further integrations. HP ESKM release 3.1 and later scale to millions of keys, tens of thousands of encryption clients, and geographically-distributed clusters of up to eight nodes to support large enterprise deployments with HP Secure Encryption.

The HP enterprise security vision

HP Secure Encryption is just one of the solutions in the HP data privacy portfolio, which also includes Data Sanitization and DMR services. An important new addition to the portfolio is our Data Privacy and Compliance Service, which is offered as a custom solution, offering proactive advice and assistance to help U.S. customers ensure compliance with HIPAA regulations as required by the 2013 HIPAA Omnibus Rule.

Adding other HP Enterprise Security Products to your solution can deliver all the pieces required to provide security intelligence and risk management to your modern enterprise. Visit hpenprisesecurity.com to find out more about other solutions in our portfolio.

Get the most out of your HP ProLiant Gen 8 server

Protect your business beyond warranty with recommended HP Care Pack Services, delivered by the people who know HP infrastructure hardware and software best—the experienced professionals at HP Services.

Optimized Care three-year HP six-hour call to repair response, Proactive Care

Combined reactive and proactive support for hardware and software to help optimize your systems and deliver high levels of availability through proactive service management and advanced technical response. Hardware problem resolution returns the hardware in operating condition within six hours of the initial service request. A single point of contact technical account manager will own your call or issue end-to-end—until it is resolved.

Learn more at
hp.com/go/hpsecureencryption
hp.com/go/eskm



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