

“Simple, Secure Encryption with the Eclipz Mainframe Data Encryptor”

The Eclipz Mainframe Data Encryptor

Optica’s Eclipz Mainframe Data Encryptor aids mainframe technology users to prevent identity theft and meet their company’s obligations for privacy and regulatory compliance by adding encryption capability to existing tape drives.

Eclipz is an inline appliance that directly integrates hardware-accelerated encryption into native FICON® (future) and ESCON® channels. It provides fully transparent, high performance data encryption for FICON (future), ESCON and Bus & Tag tape systems.

Eclipz is Simply Secure

Eclipz is undeniably the simplest and most cost-effective approach to mainframe tape encryption. Eclipz’s primary cost and simplicity advantages are:

Cost - In most applications, Eclipz is significantly lower cost than host-based or tape drive based encryption alternatives.

Installation - The first Eclipz appliance at a site takes about half an hour to initialize, generate the required organization keys, and set up user profiles. Additional appliances can take as little as 10 minutes each.

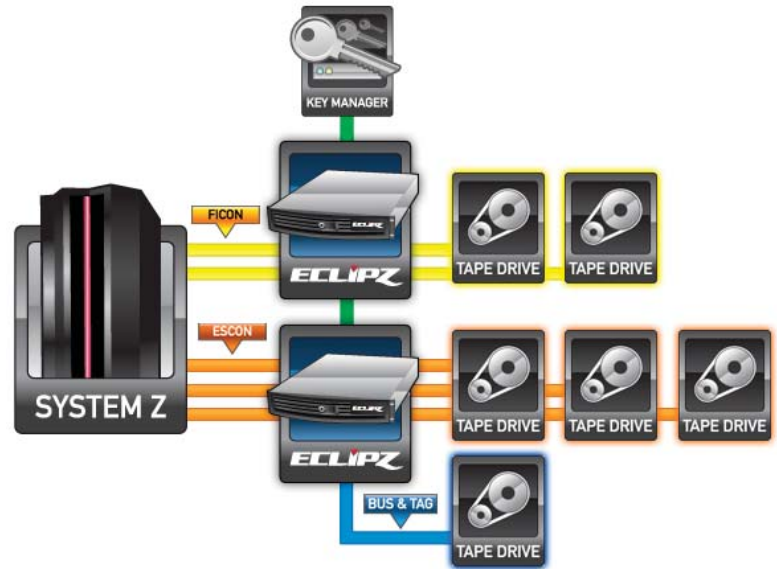
Operations - Eclipz is fully transparent to host applications and tape drive types with no host changes or storage reconfigurations. Storage operators do not need to be security specialists, and can focus on what they do best, manage their service level commitments.

Key Management - Key management could not be easier with Eclipz’s innovative “key on tape” operations. This approach negates the need to export keys between data centers or disaster recovery sites.

Disaster Recovery - Eclipz standby units are pre-installed in leading disaster recovery sites, and are available on-demand to enterprises during testing and emergency operations.

Designed for the data center, Eclipz enables mainframe operators to realize the following attributes:

- Minimal impact on native tape performance
- Preservation of deployed tape systems investment
- Enables secure backup and recovery operations, and information sharing
- Interoperability with leading appliance-based and mainframe-based key management solutions
- Supports up to 4 ESCON or 2 FICON (future) channels per appliance
- Based on industry-standard 2U Linux server



Eclipz supports up to four native ESCON channels and provides encryption for a variety of ESCON tape drives including IBM Models 3490 / 3590 and the Sun StorageTek 9490 / 9840.

Eclipz is FIPS 140-2 Level II compliant and delivers industry standard AES 128 or 256 hardware encryption as well as onboard 3:1 hardware compression.

Bus & Tag Tape Encryption

Adding the ESBT feature to Eclipz enables the encryption of Bus & Tag tapes, and connectivity of Bus & Tag tape devices on native ESCON channels. The ESBT feature converts native ESCON channels to the parallel Bus & Tag protocol, and up to 4 Bus & Tag tape devices can be supported behind each ESBT-enabled Eclipz ESCON port.

Managed Evolution for System z

Optica Technologies’ Managed Evolution for System z is an infrastructure-based simplification initiative that delivers a homogeneous FICON infrastructure that supports FICON, ESCON and Bus & Tag peripheral devices.

Managed Evolution is enabled by Optica’s Prizm FICON Converter and is the ideal solution to support ESCON and Bus and Tag peripheral devices on FICON infrastructures.

ECLIPZ

Technical Specifications

Dimensions

- Height: 2U or 8.89 centimeters (3.5 inches)
- Width: 42.95 centimeters (16.93 inches)
- Depth: 67.18 centimeters (26.45 inches)
(minimum cabinet depth required is 34 inches)
- Weight: Approximately 25 Kilograms (55 Pounds)

Components

- Intel server platform, Linux operating system
- Standard 2U server enclosure, installs in standard 19 inch cabinet with supplied "no tool" sliding rails
- ESCON Interface 4 port ESCON board with MTRJ connectors
- FICON interface LX or SX with single port HBA, 1 or 2 gig support (auto-sensing), LC Duplex

Security and Compression

- Eclipz appliance is FIPS 140-2 Level 2 certified
- Supports hardware-based AES 128 and 256 standard symmetric encryption, and ECC or NIST recommended asymmetric algorithms
- Hardware-based typical 3:1 hardware compression

Power and Cooling

- Four 60mm fans in tool-less fan module - fans provide cooling for the processors, hard drives, and interface cards
- Electrostatic Discharge, 15kV air discharge and 8kV direct contact
- Two 40mm cooling fans per power supply module
- Dual redundant DC Power Supplies, 700W PFC hot-swap power modules, 110/220 VAC auto-sensing
- Unit ships with two power cords



Eclipz Mainframe Data Encryptor

Environment

- Operating: 5 to 35 C or 41 to 95 F; reduced 0.5 C for every 1000 ft (305 m) to a maximum of 10,000 ft.
- Relative Humidity Non-operating: 90% @ 30OC
Non-condensing
- Acoustics 5.7 Bels actual

Management

- Configuration management including user-defined, multi-level password access and IP network configuration is provided from Eclipz GUI that is accessed via a standard web browser
- SNMP Support

Serviceability

- Hot swappable power supply modules
- E-mail service alerts via SMTP
- Diagnostics including error logging
- Telnet, FTP, and dial-in access also provided for remote service
- Multiple levels of security to enable only authorized users to perform service

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