

# ECLIPZ™

## ESCON® Data Encryptor



*ECLIPZ ESCON Data Encryptor*

## The Top Ten Reasons to Choose ECLIPZ!

### 1 Protect your ESCON tape data

Data at rest / Information sharing / Disaster recovery sites  
- Avoid costly customer notifications if tapes are lost or stolen.

### 2 Channel based encryption for legacy ESCON tape systems

Native in-line encryption appliance to address installed base of ESCON tape drives. Supports four ESCON channels per unit.

### 3 Offloads CPU host utilization

Eliminates the need to utilize expensive CPU MIPS. Intensive encryption and compression functions performed on the appliance, not on the CPU.

### 4 Preserves ROI for ESCON tape drives and channels

Maximizes functionality of existing ESCON tape drives and channels. FICON® channel attachment available w/ Optica's PRIZM FICON to ESCON Protocol Converter.

### 5 Transparent implementation into zSeries environments

Installs transparently into the ESCON channel without fork lift upgrade of existing tape drives. No need for JCL changes on the CPU. Operates transparently to backup management systems and tape jobs.

### 6 Minimal impact on ESCON channel throughput

Nominal throughput up to 14MB/sec per channel. High performance on-board crypto accelerator card. No impact on backup performance.

### 7 Compatible with z/OS, z/VM and z/VSE operating environments

Operating system independent. Ideal for z/VM and z/VSE infrastructures.

### 8 Unified key management

Secure key management with key wrapping included in ECLIPZ appliance. Planned interoperability with IBM's Cryptographic Services Facility (ICSF) and EKM. Planned interoperability with enterprise key management appliances from leading security vendors.

### 9 On-board hardware compression (3:1)

Industry Standard LZS compression ideal for mainframe tape applications. Compresses data and saves volume on tapes without compromising performance.

### 10 AES 128 and 256 hardware encryption

Strongest encryption standard available today.



**For more information,  
contact Optica Technologies  
at 1-800-953-4773.**

**[www.OpticaTech.com](http://www.OpticaTech.com)**

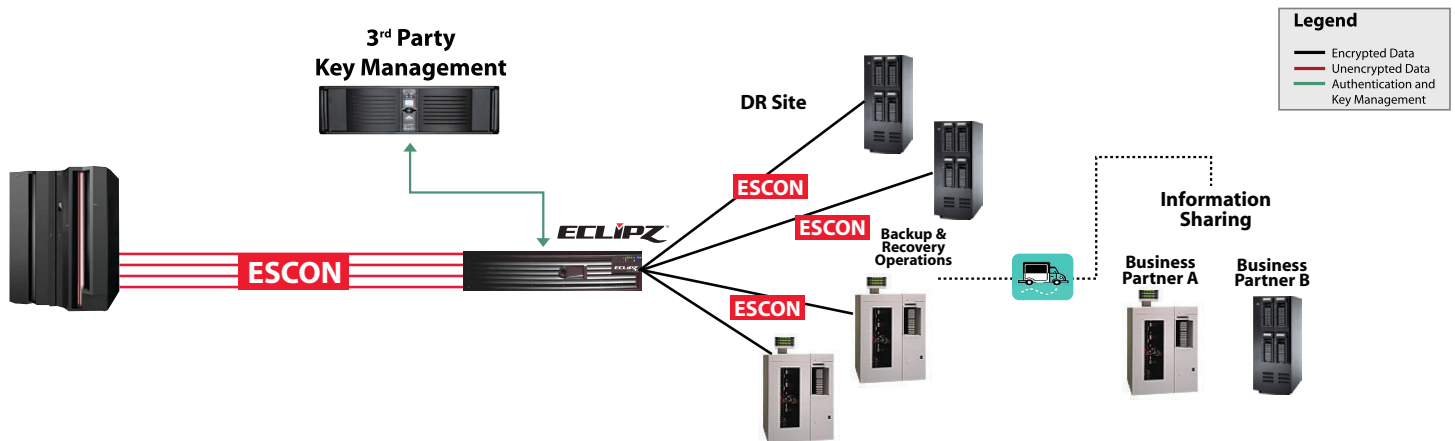


*Enterprise Connectivity and Security Solutions*

## ESCON Tape Encryption Product Comparison

Enterprise Tape Encryption Requirements		Tape Drives With Embedded Encryption	zServer Tape Encryption	Channel Based Appliances
Vendors		IBM TS1120 Sun T10000	IBM, Megacryption, PGP, OpenTech Computer Associates	Luminex, BusTech '2 Box' Solution
Ease Of Integration	<ul style="list-style-type: none"> <li>Integrates transparently without impacting host applications or tape drives</li> <li>Single 2U appliance supports 4 ESCON channels</li> </ul>	<ul style="list-style-type: none"> <li>Requires replacement of existing ESCON drives with new ESCON, FICON or FC products</li> </ul>	<ul style="list-style-type: none"> <li>Requires JCL code changes</li> <li>Requires additional CPU processing</li> </ul>	<ul style="list-style-type: none"> <li>Requires ESCON to FC channel converter and separate FC encryption appliance</li> <li>'2 Box' solution supports 1 FC channel</li> <li>Requires fork lift of ESCON tapes</li> </ul>
Virtualizes Key Management	<ul style="list-style-type: none"> <li>Standalone operation</li> <li>Planned interoperability with IBM EKM via ICSF and other leading Key Management Vendors</li> </ul>	<ul style="list-style-type: none"> <li>Requires IBM Enterprise Key Management on z/OS</li> <li>Requires Sun KMS</li> </ul>	<ul style="list-style-type: none"> <li>Requires IBM Enterprise Key Management on z/OS or;</li> <li>Vendor specific KM on host</li> </ul>	<ul style="list-style-type: none"> <li>Standalone operation only</li> </ul>
Accommodates Key Sharing	<ul style="list-style-type: none"> <li>Supports both backup operations and information sharing</li> </ul>	<ul style="list-style-type: none"> <li>Backup operations only</li> </ul>	<ul style="list-style-type: none"> <li>Supports both backup and information sharing operations</li> </ul>	<ul style="list-style-type: none"> <li>Backup operations only</li> </ul>
Leverages Tape Compression	<ul style="list-style-type: none"> <li>Onboard 3:1 hardware compression for ESCON</li> </ul>	<ul style="list-style-type: none"> <li>Onboard 3:1 hardware encryption for ESCON, FICON and FC</li> </ul>	<ul style="list-style-type: none"> <li>Software compression only</li> </ul>	<ul style="list-style-type: none"> <li>Onboard hardware compression for FC</li> </ul>
Separate Encryption & Administration Functions	<ul style="list-style-type: none"> <li>Onboard AES encryption</li> <li>Remote web browser administration and maintenance</li> </ul>	<ul style="list-style-type: none"> <li>Onboard AES encryption</li> <li>Administered on z/OS</li> </ul>	<ul style="list-style-type: none"> <li>3DES, AES Encryption and Administration on zServer Architecture</li> </ul>	<ul style="list-style-type: none"> <li>Onboard AES encryption and Administration</li> </ul>

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