

# DigiSAFE LinkCrypt *Ethernet*

## High Assurance Ethernet Link Security

DigiSAFE LinkCrypt *Ethernet* is a family of high performance and high assurance Ethernet Layer-2 Encryptors catering to the needs and requirements of government entities and commercial organizations. They enable full duplex, synchronous encryption of all Ethernet packets at a speed of up-to 100Mbps.

The core of the Encryptor is a FIPS 140-2 Level 3 compliant\* DigiSAFE TrustCrypt - secure platform module. This together with the Advanced Encryption Standard (AES) and an automated key management system (KMS) ensure reliable and secure data communications.

The DigiSAFE LinkCrypt *Ethernet* is designed for ease of installation, operation and maintenance. It offers remote monitoring of network encryptors using an SNMP-based management platform and the built-in diagnostic tools allow user to verify unit's functionality thereby reducing the maintenance cost. LinkCrypt *Ethernet* also supports field upgradeability of the encryption algorithm and security parameters.

\*pending certification



## Key Features and Benefits

- Core module is a FIPS 140-2 Level 3 compliant\* DigiSAFE TrustCrypt - secure platform module
- Remote SNMP monitoring of encryptor units improves productivity and provides real-time monitoring
- Comprehensive diagnostic tools reduce operational and maintenance cost
- Front-panel mounted access keypad, LCD/status display and interface connectors allow easy deployment
- Field-upgradeable cryptographic algorithm offers on-the-spot update and reduces additional hardware investment
- 256-bits AES encryption algorithm ensures a high level of security

## Specifications

General	<ul style="list-style-type: none"> <li>• Ethernet II, IEEE 802.3</li> <li>• Full duplex operation</li> <li>• Point-to-Point and multi-points meshed network applications</li> <li>• Up-to 100Mbps</li> <li>• Core is a FIPS 140-2 level 3 certified DigiSAFE TrustCrypt - secure platform module</li> <li>• Overall design to meet FIPS 140-2 level 3</li> <li>• Front panel menu-driven setup</li> <li>• Battery backup of cryptographic variables</li> </ul>	Security	<ul style="list-style-type: none"> <li>• Emergency erasure function</li> <li>• Tamper resistant chassis</li> <li>• Active zeroization of cryptographic data upon tamper detection</li> <li>• User PIN protected front panel menu</li> </ul>
Key Management	<ul style="list-style-type: none"> <li>• DigiSAFE proprietary key management</li> <li>• Parameter loading using smartcard</li> <li>• Automatic and transparent session key generation with on-board physical random number source</li> </ul>	Diagnostics	<ul style="list-style-type: none"> <li>• Automatic power-up self-tests</li> <li>• Alarm/Audit log messages stored in memory with date and time</li> <li>• LED indicators for link status monitoring</li> </ul>
Cryptography	<ul style="list-style-type: none"> <li>• AES-256</li> <li>• Supports customized algorithm</li> </ul>	Device Management	<ul style="list-style-type: none"> <li>• Local console port (9 pins D serial port)</li> <li>• 100 Base-T RJ45 Ethernet port – for remote monitoring</li> <li>• SNMP V2c</li> </ul>
Interface	<ul style="list-style-type: none"> <li>• 100 Base-T RJ45</li> </ul>	Operating Environment	<ul style="list-style-type: none"> <li>• Operating temperature: 0°C to +50°C</li> <li>• Relative humidity: 0 to 90%</li> <li>• Meets FCC Part 15, Class B EMI/RFI requirements</li> </ul>
		Electrical & Mechanical	<ul style="list-style-type: none"> <li>• Mains: 110/230 VAC 50/60 Hz</li> <li>• Power dissipation: 10W</li> <li>• Dimension: 420W x 44.5H x 270Dmm</li> <li>• Weight: 3kg</li> </ul>
		Optional Accessory	<ul style="list-style-type: none"> <li>• Key Management System (KMS)</li> </ul>
		Customer Support	<ul style="list-style-type: none"> <li>• 12-months warranty</li> </ul>