



MicroCryptor

Fast Encryption for Networks



The MicroCryptor is a small and compact IP network encryption device, offering fast throughput and high reliability. The size and performance of the MicroCryptor makes it an ideal solution for a wide range of security applications, for example:

- Securing IP Connections for Company Locations
- Encryption of Network Links in ATMs
- Encryption of VoIP Telephony
- Encryption of the Local Area Network
- Encryption for Standalone IP cameras
- Encryption of Home Office Connections
- Encryption in Mobile Vehicles
- Encryption of Satellite Transmissions

The MicroCryptor are able to work seamlessly with other MicroCryptors, PowerCryptors, GigaCryptors, IPCrypt Clients, and CompuSec® HSMs and can be centrally managed using GlobalAdmin management station.

Performance Overview

MicroCryptor

- **100 MBit throughput in half duplex**
- **75 MBit throughput in full duplex**
- **Encryption Algorithms supported**
 - 256/128-bits AES
 - 168-bits Triple DES
 - 112-bits Extended DES
 - Proprietary algorithms
- **5,000 clients/subnets supported**
- **Optimized for small packets for real-time traffic**
- **Redundant power supply**
- **High reliability - No moving parts**

Modes of Operation

MicroCryptor is available in either a **bridge** mode or **gateway** mode. Each of these modes caters for different implementations in the organization. The bridge-mode MicroCryptor encrypt the payload of the IP packet, and works as a bump-in-the-wire concept. As such, the bridge-mode MicroCryptor can be easily deployed into existing networks, or MPLS networks. Gateway-mode MicroCryptor encapsulate the original IP packet with new headers, allowing the original IP headers to be concealed. The gateway-mode MicroCryptor allow secure remote access from client machines using IPCrypt Client.

Enhanced IPsec

MicroCryptor provides an alternative key management protocol called *Enhanced IPsec* developed by CE-Infosys. Using Enhanced IPsec, faster connections can be made as there is no need for lengthy session key negotiations using IKE to establish a tunnel. In addition, each IP packet is implicitly authenticated with any modified or malicious packets automatically discarded.



Enhanced IPsec enables the session keys used for encryption to be changed with unprecedented speed. The lifetime of each session key can range from 1, 5, 10 or 20 packets. These rapidly changing session keys protect the networks from passive attacks such as statistical analysis of the encrypted packets.

If required, the MicroCryptor can also be configured to use standard IPsec/IKE protocols in Gateway mode.

Central Management

The MicroCryptor can be easily managed centrally using GlobalAdmin. This central management station provides an intuitive Graphical User Interface for simple administration of the MicroCryptor. Using GlobalAdmin, keys and policies used by the MicroCryptor can be pushed down remotely. In addition, firmware upgrades can be sent remotely to the MicroCryptor.

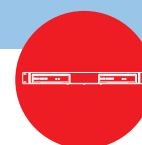
Highest Reliability

As a high end product for the most demanding customers reliability is a key asset. MicroCryptor are designed for reliability. No mechanical moving parts are found in MicroCryptors. No high voltage components are used in the products. MicroCryptors have an outstanding MTBF rate and are resistant against dust, sand and humidity. They are designed to be useable in cars, trucks and other vehicles.

Miscellaneous

Size	<ul style="list-style-type: none"> • 140 mm X 110 mm X 30 mm • 2 MicroCryptors can be placed in a 1U slot in a standard 19-inch rack
Interfaces	<ul style="list-style-type: none"> • 2 x 10/100 MBit auto-sensing Copper Ethernet Interface • RS232 Diagnostic Port • USB slot for USB token
Power Specification	<ul style="list-style-type: none"> • 12V/1A DC input • An external power adapter for 110/230V 50-60 Hz AC is provided with each product
Logging and Reporting	<ul style="list-style-type: none"> • Syslog and Syslog-Mail • SNMP • GlobalAdmin
Additional Features	<ul style="list-style-type: none"> • UDP Tunneling • Source and Destination NAT • Configurable Routes • Configurable Bypass Rules • IP Address Pools • High Availability and Load-sharing

Optional Accessories:
(Sold Separately)



1U Server Rack



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