



# ANIS MicroCryptor

Self-Defending Network Encryption Device



The Advanced Network Infrastructure Security (ANIS) MicroCryptor is a small and compact IP network encryption device, offering fast throughput and high reliability. Armed with a full set of self-defending mechanisms, the ANIS MicroCryptor is able to detect various forms of attacks. Under any circumstance the privacy of the key is maintained.

The ANIS MicroCryptor can actively defend itself, even the power supply is removed. The size and performance of the ANIS MicroCryptor makes it an ideal solution for a wide range of network security applications, especially in non-trusted environments, such as the encryption of the local area network in rented embassy buildings.

## Self Defending Mechanisms

The ANIS MicroCryptor feature a full complement of self-defending mechanisms that can detect even the most sophisticated attacks. The self-defending mechanisms are combined with various alarm actions to form a product that is able to fully protect the device and the keys stored in it. Each of the alarms can be configured in GlobalAdmin, and can be dynamically turned-on or turned-off for easy administration.

## Performance Overview

### ANIS 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
- **20,000 clients/subnets supported**
- **Optimized for small packets for real-time traffic**
- **High reliability - No moving parts**

Some of the different self-defending mechanisms and alarm actions are:

<b>Touch Sensors</b>	Detects physical opening of the device and probing of the PCB
<b>Motion Sensors</b>	Detects when the ANIS MicroCryptor is being moved
<b>Electronic Sensors</b>	Detects various types of attacks
<b>Secondary Power</b>	Self-defending mechanism can work even when power is removed
<b>Hidden Alarms</b>	Silently sends an encrypted alarm to the GlobalAdmin station

## Modes of Operation

The ANIS MicroCryptor is available in either a **bridge** mode or **gateway** mode. The bridge-mode MicroCryptor works as a bump-in-the-wire concept and can be easily deployed into existing networks, or MPLS networks. Gateway-mode ANIS MicroCryptor encapsulate the original IP packet with new headers, allowing the original IP headers to be concealed, as well as secure remote access from client machines using IPCrypt Client.

## Enhanced IPsec

The ANIS MicroCryptor provide 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. In addition, the session keys used for encryption can be changed as rapidly as every 1, 5, 10, or 20 packets to defeat any attempts at statistical analysis of the encrypted packets.

## Central Management

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

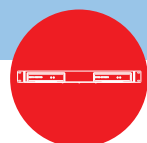
## Highest Reliability

As a high end product for the most demanding customers reliability is a key asset. ANIS MicroCryptor are designed for reliability. No mechanical moving parts are found in ANIS MicroCryptors. No high voltage components are used in the products. ANIS 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

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

Optional Accessories:  
(Sold Separately)



1U Server Rack



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