



PowerCryptor

Powerfull Encryption for Networks



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

- Securing IP Connections for Company Locations
- Secure Remote Access for Mobile Users
- 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 PowerCryptor are able to work seamlessly with other PowerCryptors, MicroCryptors, GigaCryptors, IPCrypt Clients, and CompuSec® HSMs and can be centrally managed using GlobalAdmin management station.

Performance Overview

PowerCryptor

- **1000 MBit throughput in half duplex**
- **500 MBit throughput in full duplex**
- **Encryption Algorithms supported**
 - 256/128-bits AES
 - 168-bits Triple DES
 - 112-bits Extended DES
 - Proprietary Algorithms
- **40,000 clients/subnets supported**
- **Optimized for small packets for real-time VoIP traffic**
- **10/100/1000 MBit Ethernet**
- **Redundant power supply**
- **High reliability - No moving parts**

Modes of Operation

PowerCryptor is available in either a **bridge** mode or **gateway** mode. Each of these modes caters for different implementations in the organization. The bridge-mode PowerCryptor encrypt the payload of the IP packet, and works as a bump-in-the-wire concept. As such, the bridge-mode PowerCryptor 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 PowerCryptor allow secure remote access from client machines using IPCrypt Client.

Enhanced IPsec

PowerCryptor 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 PowerCryptor can also be configured to use standard IPsec/IKE protocols in Gateway mode.

Central Management

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

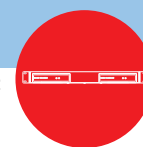
Highest Reliability

As a high end product for the most demanding customers reliability is a key asset. PowerCryptor are designed for reliability. No mechanical moving parts are found in PowerCryptors. No high voltage components are used in the products. PowerCryptors 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 PowerCryptors can be placed in a 1U slot in a standard 19-inch rack
Interfaces	<ul style="list-style-type: none"> • 2 x 10/100/1000 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 • Firewall for Gateway Mode

Optional Accessories:
(Sold Separately)



1U Server Rack

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CE-Infosys GmbH
Am Kümmerling 45
D-55294 Bodenheim
Germany
Tel.: +49 (0) 6135 / 77 0
Fax: +49 (0) 6135 / 77 77
de.sales@ce-infosys.com

CE-Infosys Pte Ltd
390 Havelock Road
#08-02 King's Centre
Singapore 169662
Tel.: +65 6235 8722
Fax: +65 6235 3164
sg.sales@ce-infosys.com

CE-Infosys FZ-LLC
Dubai Internet City
Thuraya 2 Building Office 1007
PO Box 500434 Dubai U.A.E
Tel.: +971 4 369 7578
Fax: +971 4 369 7579
ae.sales@ce-infosys.com

Reseller: