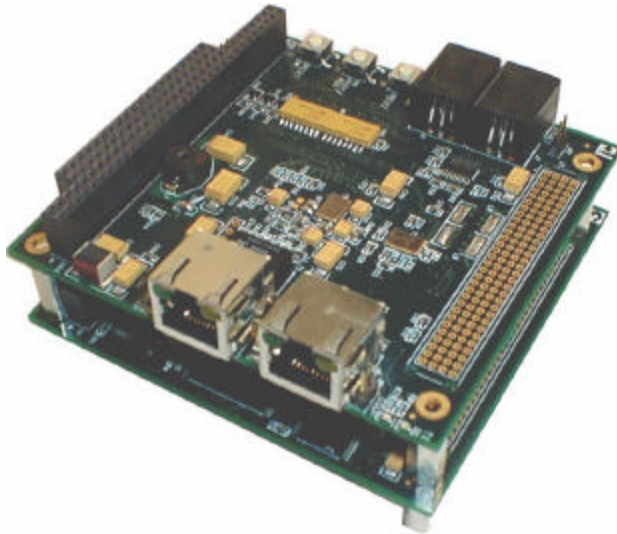


IPE-2M Encryptor

Type II Security for IP Networks



IPE-2M is small in size, low power and easy to transport. It is designed for strategic and tactical networks using IP communications as well as commercial environments.

Trusted communications is a critical element in any infrastructure. High Assurance communications require the highest level of security. Whether your organization needs to secure private or public IP networks, the IPE-2M encryptor meets these security requirements. Utilizing IPSEC/HAIPIS and 3DES Encryption with strong authentication the IPE-2M secures all IP traffic on the trusted network.

The first of its kind IPE-2M is a hardware based, PC/104-Plus encryptor designed for all IP internetworking environments (mobile, wireless, space and stationary).

The premise behind the IPE-2M is mobile Virtual Private Networking using the National Security Agency specification for IPSEC, High Assurance Internet Protocol Interoperability Specification (HAIPIS). All data attempting to traverse the trusted network is authenticated, monitored and encrypted by the IPE-2M.

In its current state the IPE-2M is designed to work with the Cisco 3200 Series Mobile Access Router for strategic and tactical applications. Internet Engineering Task Force-Internet Protocol Security (IETF IPSEC) Tunnel or Transport mode is used in conjunction with 168-bit Triple DES encryption to secure IP traffic. In addition the IPE-2M has been designed to comply with HAIPIS, FIPS 140 and NSA approvals pending.

Features:

Command Line/Menu driven interface

Easy to use command line/menu driven interface for configuration and key loading.

Auto recovery

IPE-2M will automatically recover from service disruption (loss of power, loss of network, etc.). Eliminates need for user intervention.

Authentication

Authentication is performed using SHA-1 algorithm with unique keys. Per HAIPIS authentication performed on "plain text".

Confidentiality

IPE-2M encryption protects data from potential eavesdropping. Encrypted data is transported via tunnels established by encryptor.

Integrity

IPE-2M utilizes cryptographic verification that the data transmitted has not been modified.

Standards Compliance

NSA (HAIPIS) and FIPS 140 approvals pending

IETF IPSEC

FCC, UL approvals pending

FIPS PUB 46-3 (Triple DES)

FIPS 180-1 (SHA-1)

CE approval pending

Interfaces:

Plaintext (RED) and Ciphertext (BLACK) separation is maintained using two RJ45 Ethernet Interfaces.

RED Interface – 10/100 Mbps, RJ45 (LAN Interface)

BLACK Interface – 10 Mbps, RJ45 (WAN Interface)

Keyfill Interface – RS-232 (RJ45), Secure Console/Menu

PC/104-Plus

Security Features:

HAIPIS

IETF IPSEC Tunnel or Transport mode

IKE (Internet Key Exchange)

SHA-1 (Secure Hash Algorithm), FIPS 180-1

168-bit Triple DES, FIPS PUB 46-3

PPK (Pre-Placed Keys)

Type I Enclosure *optional**

Power Requirements:

+5V DC (on-board conversion to 3.3V and 2.5V)

Maximum current draw 3A (1.5 Amps per board)

Maximum Wattage 9.9W

For More Information:

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