



# IPE-10M

## PC/104 *Plus* High Assurance IPsec Encryptor



- Hardware Based Encryption (ASIC)
- IPSEC tunnel mode: AH, ESP, AH+ESP
- 256-bit AES-CTR (Counter mode) Encryption
- IKE, DSA, SSL, DH and RSA
- True Random Number Generator
- Secure Hash Algorithm SHA-1
- LZS and MPPC Data Compression
- NIST FIPS 140-2 Level 2, Level 3 with FIPS approved enclosure
- Common Criteria (CC) - EAL 4
- PC/104-*Plus* Standard (3.55" x 3.75")
- Zeroization Circuitry
- Tamper Detection & Alert

Western DataCom introduces the IPE-10M PC/104-Plus High Assurance IPsec Encryptor. A follow on to the first generation IPE the IPE-10M is a hardware based encryptor designed for all private and public IP internetworking environments (mobile, wireless, space and stationary).

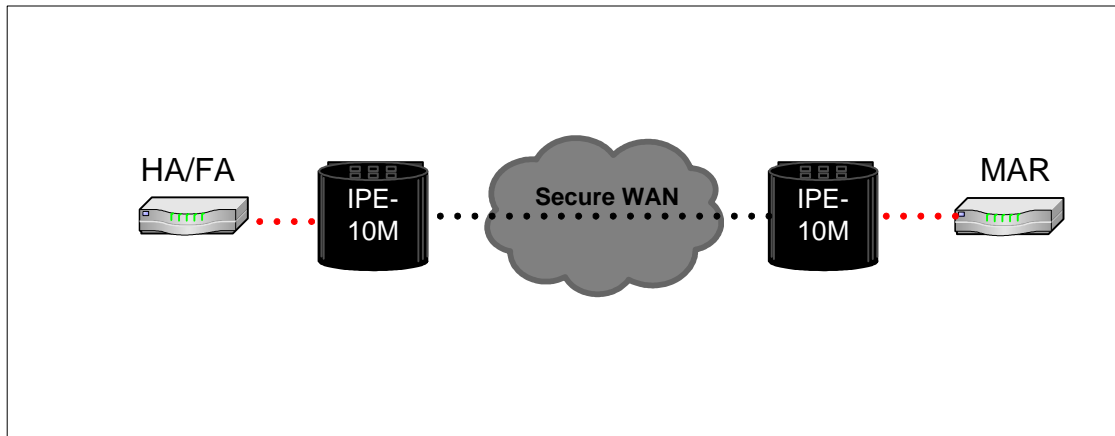
The IPE-10M has been designed to directly interface with the Cisco 3200 Series of routers and provide Virtual Private Network encryption using IPsec (Internet Protocol Security). All data attempting to traverse the trusted network is authenticated, encrypted and monitored by the IPE-10M. Security at the IP layer has a decisive advantage that, irrespective of the interoperability conditions of different software and hardware applications, all communication services are protected - data, voice and video.

Internet Engineering Task Force-Internet Protocol Security (IETF IPSEC) Tunnel mode is used in conjunction with the Advanced Encryption Standard (AES) to secure IP traffic. In addition the IPE-10M has been designed to meet the most stringent of security certifications, separation of plaintext (Red) and Ciphertext (Black) is maintained per NSA mandates.



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PC/104 *Plus* High Assurance IPsec Encryptor



## General Specifications:

Interfaces: 10/100BaseT - RED  
 10BaseT - BLACK  
 RS-232C Console  
 RS-232C Key Fill

Size: PC/104 *Plus* 3.55" x 3.75"

Power: 3.3V PCI Bus  
 5 VDC ISA Bus  
 Less than 1.5A (per card)  
 9.9W Max. (4.9W Typical)

Rates: Less than 1% encryption overhead.  
 Data Compression with packet expansion protection

MTBF: 62,196 hours (calculated)

## Approvals/Standards:

FIPS 197, AES-CTR  
 FIPS 180-1, SHA-1  
 FIPS 198, HMAC  
 FIPS 46-3, 3DES  
 FIPS 140-2, Cryptographic Validation  
 Common Criteria - EAL4  
 FCC, UL and CSA

## WDC Part Number:

910-IPE-10M

## Western DataCom Key Partner:



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## 12-Month Limited Warranty:

Refer to the user manual for details on Western DataCom's exclusive limited warranty and extended warranty programs. Free technical support for life of product.