



Ethernet Encryptor



AES Network Tunnel, Bridge or Router

- Encrypt LAN to LAN Traffic
- Secure Proprietary Information
- Standalone Encryption Appliance

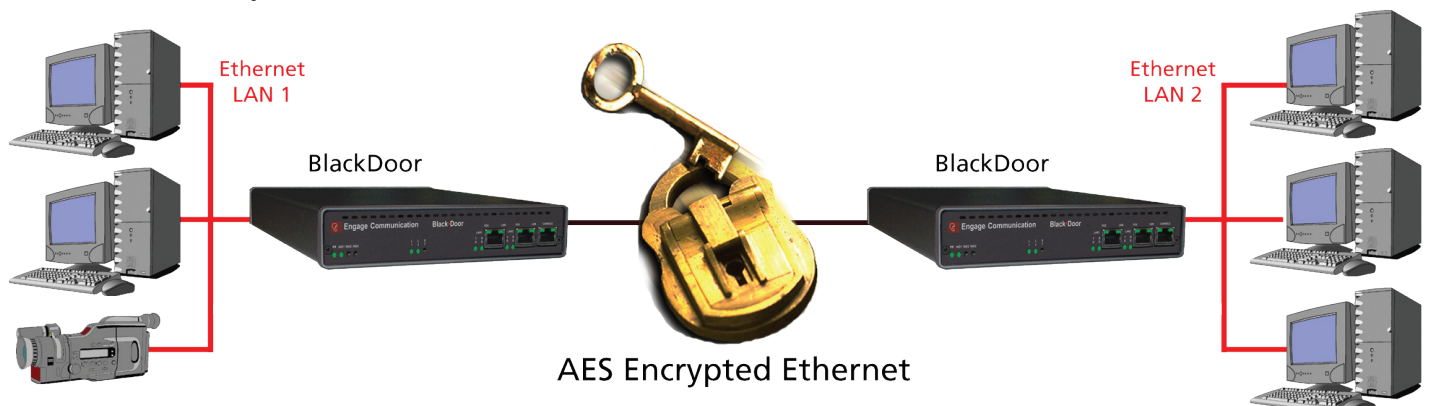
Encrypt Voice, Video, & Data Packet Networks

The **Black•Door** protects the confidentiality and integrity of Intranet and Internet Ethernet networks with the strongest commercially available cryptography. The **Black•Door** Ethernet Encryptor, which supports Point to Point and Multipoint information assurance configurations with unique dynamic keys, is specifically designed for real time wireline backbones and the full spectrum of outdoor Wireless WAN technologies including: Free Space Optics, licensed and unlicensed Radios.

The **Black•Door** Ethernet encryptor meets the new security requirements and reduces overall network complexity for:

- *Department of Defense*
- *Telecommunications Providers*
- *Oil and Gas Companies*
- *Transportation Agencies*
- *Homeland Security*
- *Natural Gas & Electric Power Utility Companies*
- *Banking & Financial Services Institutions*
- *Public Safety Networks*

The **Black•Door** transparently AES encrypts Ethernet networks. Ethernet Voice, Video or Data packets, that are destined for a device located on a remote network or a different local network segment, are AES encrypted at the Link, Network or Transport Layer and then tunneled, bridged or routed to the destination network. At the destination network the packets are decrypted and the original Ethernet packets are securely delivered to the destination Ethernet device.



Black-Door Standard Features

Black Bridge

The internal LAN segment transparently monitors all the packet traffic. Non Local Packets are encrypted above the Mac layer and bridged to the destination network.

Black Router

Remotely destined packets are encrypted above the Network layer and then dynamically or statically routed to the destination network.

Black Tunnel

Interconnects Ethernet LANs through an IP Transparent Encrypted Tunnel. Original packets are entirely encrypted and then encapsulated into an IP packet that is forwarded to the destination network.

Advanced Encryption Standard

FIPS approved symmetric encryption algorithm that may be used by U.S. Government organizations (and others) to protect sensitive information.

Key Management

Automated 256 bit key management configurations ensure timely key transitions and eliminate the operational and maintenance costs of managing an encrypted network with manual key distribution.

Management

An IP Ethernet interface, with SNMP, enables ease of management, configuration, and upgradeability.

Technical Specifications

Encryption Algorithm:

- AES 256-bit
- Fully Automatic key management
 - 1 minute to 42 day rekey interval without interruption
- Hardware Random Number Generator
- Full Duplex real time encryption

LAN Network Interface:

- Two 10/100BaseT Full/Half Ethernet
- Auto negotiation or Configured Speed and Duplex

LAN Network Protocols Supported:

- IP, TCP, UDP, ICMP
- Telnet

TFTP Online Upgrade Capable (FLASH ROMs)

- Fully operational during upgrade

Environmental:

- 0° to 132° F (-10° to 50°C) operating temperature
- Up to 90% operating humidity (non-condensing)
- Optional Extended Temperature Range available

Regulatory:

- CE • Safety -IEC60950 • EMC - CFR 47 Part 15 Sub Part B:2002, EN55022:1994+A1&A2, EN55024, ICES-003 1997, CISPR 22 Level A

Management:

- Telnet support with Edit and Paste Template Files
- Console Port for Out of Band Management
- SNMP support (MIB I, MIB II) with configured traps
- Remote config., monitoring, & reset

Power:

- 12-30 VDC, 1.0A. • Locking Connector
- Optional -48V 0.25 Amp • Hot Standby

Dimensions:

- Dimensions: 9" (L) x 7.3" (W) x 1.50" (H)
- Optional Medeco Case

How To Order - Black-Door

Part No.	Description	Notes
007-0220-02	Black•Door	Base Model with 2 LANs
Power Options		Specify as suffix - Combine 2 for Hot Standby
-DCMOD	Power Module 12/26 VDC ADAPTER	Ships with Universal Adapter 100/240 50/60
-WIREDC	Power Supply Module 12/30 VDC Screw Term	
-N48VDC	Power Supply Module Negative 48 Volt DC	Isolated Negative 48 Volt Power
-RACKMNT	19/23" Wide Rack Mount Brackets	Enclosure Nut Serts Installed