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BlackDoor OPS





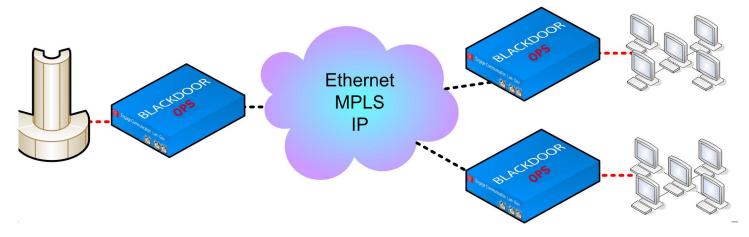
- Supports QKD (Quantum Key Distribution)
- Encrypt Layer 2/3/MPLS Payloads
- Secure Proprietary Information
- Point-to-Point or MultiPoint Architecture

Encrypt Voice, Video, & Data At Gigabit Speeds

The **Black•Door OPS Encryptor** supports Point to Point and Multipoint information assurance configurations with unique dynamic keys while supporting **QKD** (Quantum Key Distribution). The **Black•Door OPS Encryptor** is designed for gigabit wireline or wireless backbone configurations. The **Black•Door** meets stringent security requirements while reducing overall network complexity in applications including:

- 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 OPS Encryptor** transparently encrypts Ethernet Voice, Video or Data packets, that are destined for a device located on a remote network or a different local network segment. Data packets 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.



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Black Door OPS Standard Features

OSI Layer Encryption

It is important for an external encryption device to be able to handle encryption at multiple layers of the OSI model. The **Black•Door OPS Encryptor** can interface to all layers with an internal bridge and router and provides secure data encryption at Gigabit throughput levels.

Interfaces at Layer 2, non-local packets are encrypted above the MAC layer and then directed to the appropriate destination address by the internal bridge.

Router

Interfaces at Layer 3, packets are encrypted above the Network Layer and then can be dynamically or statically routed to the destination network by the internal router.

Tunnel

Many times network to network security requires an encrypted 'tunnel' carrying Ethernet packets over a pre-defined network path. The **Black•Door OPS** Encryptor permits user creation of a destination table, encrypts the entire incoming packet, and adds the

appropriate destination address for correct network transport.

MPLS

The **Black**•**Door OPS Encryptor** can provide "payload only" encryption for MPLS data packets, maintaining the MPLS labels but encrypting the data. It is flexible enough to provide an encrypted 'tunnel' for point-to-point MPLS connections or can encrypt at Layer 2 or Layer 3 or both, easy to configure without any down time for network access equipment.

Advanced Encryption Standard

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

Management

Key

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.

SNMP

The **Black•Door OPS Encryptor** is manageable deployments of encryption devices with centralized management have made SNMP support a priority.

Technical Specifications

Encryption Algorithm:

- AES 256-bit (GCM)
- Supports QKD (Quantum Key Distribution)
- 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:

- Four 10/100/1000 Base T, SFP Modules Optional
- Auto negotiation or Configured Speed and Duplex

LAN Network Protocols Supported:

- IP, TCP, UDP, ICMP
- SSH

System Architecture:

- Point-to-Point
- · Point-to-Multipoint

Performance:

- JUMBO Ethernet Packet capability (9014 Octets)
- Full Duplex
- Low latency (< 1ms)
- In Process Key Updates

with SNMP via standard and private MIBs. Large scale

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:

- SSH 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 VDC, 5.0 Amp.
- Optional Hot Standby

Dimensions:

- Dimensions: 12" (L) x 5.5" (W) x 1.5" (H)
- Optional Medeco Case

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