ProtecD@R® High Speed Encryptor (KG-540A)

High Speed InfiniBand Data-at-Rest Security

Overview

The ProtecD@R High Speed Encryptor (KG-540A) protects the Data-at-Rest (DAR) on InfiniBand-based storage networks. Smaller and lighter then the KG-540B, the KG-540A is designed for airborne applications.

Ideal for high bandwidth applications, the KG-540A provides low latency security for large data and video files at 32 Gb/s throughput speeds.

Features at a Glance

- 32 Gb/s aggregate throughput
- Certified to secure information classified Top Secret Codeword and below
- Cryptographic key erasure quickly renders stored data unreadable
- Low latency
- Secure software upgrade capability
- Field tamper recoverable

NSA Certified

32 Gb/s Aggregate Throughput

Ideal for Securing Large Data Files at High Speeds

Security for Top Secret/SCI and Below

Crypto Modernization Compliant

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Specifications

- **Dimensions**
  - 5.25" H x 17.50" W x 24" D (3U) (19" Rack Mountable)

- **Weight**
  - 34.2 lbs

- **Power**
  - 270 VDC
  - 250W

- **Environmental**
  - Operating Temperature: 0°C to 35°C (32°F to 95°F)
  - Non-Operating Temperature: -40°C to 71°C (-40°F to 160°F)

- **Interfaces**
  - Four ciphertext (BLACK) 4x DDR interfaces and four plaintext (RED) 4x DDR interfaces
  - 50 µm multimode (850 nm) Short Reach fiber optics using MIL-DTL-38999 connectors
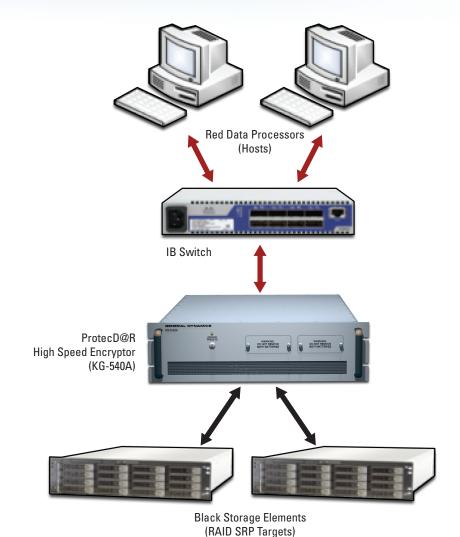 - RJ-45 connectors for Local Console and Remote Management Ethernet

- **Key Fill**
  - Black key fill via DTD and SKL

- **Remote Management via SNMPv3**
  - Configure settings
  - View status/statistics
  - Collect audit logs for querying and archiving

- **Reliability**
  - 9,125 hour MIL-HDBK 217 calculated Mean-Time Between Failure (MTBF) at 30C in an airborne inhabited commercial environment

Red Data Processors (Hosts)

IB Switch

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Black Storage Elements (RAID SRP Targets)

GENERAL DYNAMICS
Mission Systems

D-DAR540A-03-0418