ProtecD@R® PC Encryptor (DaR-400)

Data-at-Rest (DAR) Security for Desktop and Laptop Computers

Overview

Developed to secure data stored on your computer’s hard drive, ProtecD@R® PC offers users a single unit that can be installed in a desktop computer or attached to a laptop to protect information classified Secret and below. ProtecD@R PC transparently and automatically encrypts the data between the computer’s processor and disk drive ensuring the data is protected even if the computer is lost or stolen.

ProtecD@R PC can be used with new or already deployed computers, and does not require any host dependencies or Operating System configurations. When your hard drive is encrypted using ProtecD@R PC, the transportation of classified data is drastically simplified and the need to lock up your hard drive is eliminated.

ProtecD@R PC is ideal for mobile computer users, high-risk locations or environments susceptible to insider threats or overrun. ProtecD@R PC is a Suite B Secret and Below Cryptographic High Value Product (CHVP) which simplifies the transportation and handling of classified data, saving time and money.

Features at a Glance

- Portable, small 1"H x 4"W x 6.4"D form factor
- Self-generated key unique to each device
- Simplifies transportation of classified data
- CHVP/non-CCI devices ship without COMSEC handling or logistics
- Compatible with any COTS computer with SATA interface
  - Compatible with 3.5- and 5.25-inch storage bays or can stand alone and be connected to the laptop eSATA port
- Operating System agnostic
- Easy to configure, deploy and use
- Field tamper, zeroize and data recovery
- Low latency, transparent to end users
- Configuration, management and recovery via local serial port or ProtecD@R Manager GUI
- Quiet, no moving parts increases reliability, decreases maintenance

Availability

- NSA certified and available today
Specifications

- **High Capacity (Rotational)**
  - Data capacity: 640 GB
  - Cache: 8 MB
  - Write data rate: 187 MB/s Cache, 75 MB/s sustained
  - Read data rate: 210 MB/s Cache, 78 MB/s sustained
  - Write IOPS 4860
  - Read IOPS 3920

- **High Performance (SSD)**
  - Data capacity: 240 GB
  - Write data rate: 78 MB/s
  - Read data rate: 227 MB/s
  - Write IOPS 7504
  - Read IOPS 9403

- **Supported Operating Systems**
  - Windows® XP, Windows® Vista, Windows® 7, and Red Hat® boot demonstrated

**ProtecD@R PC Manager**

The ProtecD@R Manager is provided with every ProtecD@R PC encryptor and provides an easier interface to perform many management functions, including:

- Set date and time
- Create CIKs
  - Data recovery
  - Zeroize recovery
  - Users
- Enable quick encryptor initial setup
- Generate the MEK
- View and clear audit log
- Perform recoveries (data, tamper, zeroize)
- Perform software upgrade

**Security**

- Implements Suite B Algorithms

**All ProtecD@R PC Models**

- **Size**
  - Compact 1" x 4" x 6.4" form factor

- **Weight**
  - <22 ounces

- **Environment (Drive Dependent)**
  - 0°C/32°F to 50°C/122°F (operating; high performance to 60°C/140°F)
  - −30°C/−22°F to 70°C/158°F (storage)
  - Operational altitude to 10,000 feet; non-operational to 40,000 feet
  - Humidity to 90%
  - Shock: MIL-STD-810G 36-inch drop (SSD and non-operational)
  - Vibration: MIL-STD-810G transportation 5-500Hz (non-operational)

- **Data Interface**
  - 1.5 Gbps and 3.0 Gbps eSATA

- **Low Latency**
  - Read: 1.5 µsec
  - Write: 1.5 µsec

- **Native Command Queuing (NCQ) Support**

- **Power**
  - 5VDC
  - <7 Watts
  - Replaceable battery backup power

- **Cold Start:** <30 Seconds
- **CIK:** Up to Six User CIKs Per Device, Front Panel Receptacle
- **Zeroize:** Front Panel Button
- **Software Upgradable in the Field**

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**GDMS CYBER**

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