

# ProtecD@R® PC Encryptor (DaR-400)

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



NSA certified for Secret and below

Low cost and easy to use, install and manage

Industry standard SATA interfaces

Transparent operation, no host dependencies

CHVP — Non-CCI Handling Simplifies Transportation/  
Handling of classified material

## 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

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## 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

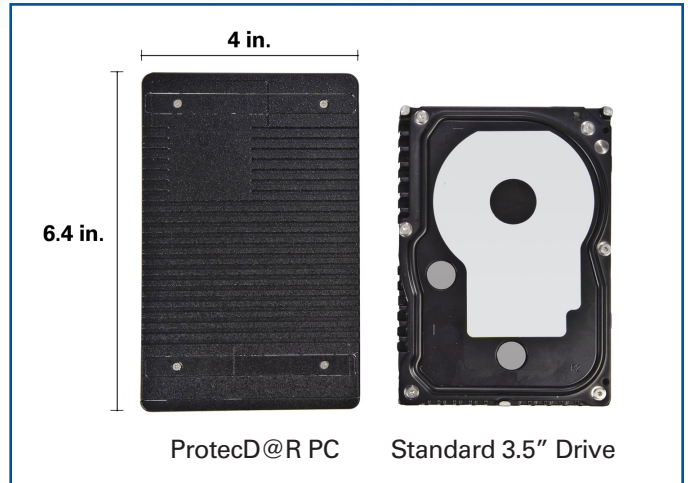
## ProtecD@R PC Manager

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**

**GENERAL DYNAMICS**

Mission Systems

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