

DARC-ssd 600

Data At Rest Cryptography

M.2 NVMe™ 256-bit AES hardware encrypted solid state drive

Data breach threats loom daily, putting classified and sensitive data at risk. The Viasat DARC-ssd 600 is a highly secure Data At Rest (DAR) storage solution for protecting SENSITIVE and CLASSIFIED information in compatible Commercial Off The Shelf (COTS) laptops, tablet computers and small form factor PCs in the enterprise and tactical environments, as well as data stored in vehicles, aircraft and ships.

During high-risk operations, this secure storage solution protects your valuable data on manned and unmanned mobile platforms with hardware-based encryption.

In the event of computer theft, loss, or attack, the solid state drive (SSD) helps ensure that data is protected and secure. The military-grade 256-bit AES hardware encryption and tamper evident design offers high level security with mandatory two-factor authentication.

Viasat's DARC technology integrates sophisticated authentication, entire drive hardware encryption, and data storage within a tamper-evident internal NVMe™ M.2 SSD that safeguards your data. This provides instant data protection that is seamless to the user experience and operating system.

User and management features and benefits:

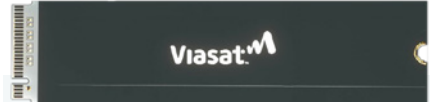
- › Once the computer is powered off, all data is secure even if your drive or computer is stolen
- › User requires no specialised IT knowledge
- › Easy installation - setup and authentication pre-OS
- › Supports imaging, ghosting, partitioning, and diagnostic applications
- › User accounts are configurable with up to 128 different accounts

Secure entry and authentication

- › DARC-ssd 600 with mandatory two-factor authentication at boot-up
- › Clearview password + token/iButton

Protection from brute force password attack:

The user will be suspended after the maximum failed authentication attempts, and the key will be purged after all users are suspended. Drive usage will recommence through a key replacement. Once the device is locked, it must be taken to a Crypto Officer to be unlocked.



Viasat DARC-ssd At-a-Glance

- › Reduces handling requirements during storage and or transportation of Classified data when the protected computer is turned off and the user token device is carried separately¹

FULL DRIVE ENCRYPTION

- › Including all data and OS
- › Secured upon system power down and hibernation

256-BIT AES HARDWARE ENCRYPTION

- › Authentication is performed by hardware and not in the system software layer
- › Every drive sector is encrypted
- › Emergency key purge available

SOLID STATE DRIVE (SSD)

- › No moving parts
- › Provides performance and durability
- › No noise – no spin or seek time, silent operation

TAMPER EVIDENT DESIGN

- › All devices are covered in conformal coating

ANTI-CLONE

- › DARC-ssd 600 cannot be cloned once encryption is set
- › Token is protected against cloning

¹“Dependent upon your project-specific handling instructions decided by the Senior Information Risk Owner (SIRO). Please refer to your National Authority for guidance.”

DARC-ssd 600

SPECIFICATIONS

Capacity	256 GB, 512 GB, 1 TB
Physical Interface	PCIe Gen 2.0 x 2
Logical Interface	NVMe™ 1.3 compliant
Encryption	256-bit AES Hardware Encryption
Compatibility	Easy installation in most COTS computers; direct replacement for a computer's previous NVMe™ M.2 2280 ssd* Compatible with UEFI BIOS Operating System and service pack independent once installed* Application software independent
Token cloning	Encryption key positively erased Encryption key never leaves DARC-ssd 600 Every drive sector is encrypted Token is protected against cloning

PHYSICAL CHARACTERISTICS

Form Factor	M.2 2280 SSD (M Key connector) Latest most common SSD for laptops (thin client, ultrabooks) and tablets
Physical Dimensions (W x D x H)	
> 256 GB	80 mm x 22 mm x 2.3 mm
> 512 GB	80 mm x 22 mm x 2.3 mm
> 1 TB	80 mm x 22 mm x 2.5 mm
Power Consumption (max)	All capacities 8.25 W
Voltage	+3.3 V
Weight	7 g

ENVIRONMENTAL

Operating Temperature	-40° to +70°C
Non-Operating Temperature	-50° to +85°C
MTBF (hours)	>1.5 million
TBW – SSD Endurance	
> 256 GB	120 TB
> 512 GB	240 TB
> 1 TB	480 TB
Compliance	CE UKCA

*Installation compatible with tested Windows/Linux operating systems and compatible COTS laptops.



Viasat KeyStone
(required for two-factor authentication)

PART CODE

DESCRIPTION

DCT-IL6-025655NA	256 GB DARC-ssd 600 NVMe™ M.2 2280 Extended operating temp
DCT-IL6-051255NA	512 GB DARC-ssd 600 NVMe™ M.2 2280 Extended operating temp
DCT-IL6-001T55NB	1 TB DARC-ssd 600 NVMe™ M.2 2280 Extended operating temp



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