

DARC-ssd 100

Data At Rest Cryptography

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

Data breach threats loom daily, putting sensitive data at risk. Whether an organisation's employees are working in the office, at home, in shared working spaces or anywhere else, it is critical to manage security risks, especially for data that resides on laptops and other devices.

The Viasat DARC-ssd 100 is a highly secure Data At Rest (DAR) storage solution for protecting sensitive information and data in compatible Commercial Off The Shelf (COTS) laptops, tablets and desktop computers.

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

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

User and management features and benefits:

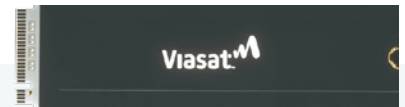
- › Once the computer is powered off, all data is secure, even when your drive or computer is stolen
- › User requires no specialised IT knowledge
- › Easy installation - setup and authentication pre-OS
- › Supports imaging, ghosting, partitioning, and diagnostic applications
- › User accounts are configurable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

Secure entry and authentication

- › Password only authentication (case sensitive, alpha numeric and special characters)

Protection from brute force password attack:

The user will be suspended after the maximum failed password 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 the Crypto Officer to be unlocked.



Viasat DARC-ssd At-a-Glance

- › Military grade technology

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

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 100 cannot be cloned once encryption is set

DARC-ssd 100

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
Security	Encryption key positively erased Encryption key never leaves DARC-ssd Every drive sector is encrypted

PHYSICAL CHARACTERISTICS

Form Factor	M.2 2280 SSD (M Key connector) Latest most common SSD for laptops (thin client, ultrabook) and tablets
Physical Dimensions (W x D x H)	
› 256GB	80 mm x 22 mm x 2.3 mm
› 512GB	80 mm x 22 mm x 2.3 mm
› 1TB	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	0° to +70°C
Non- Operating Temperature	-50° to +85°C
MTBF (hours)	>1.5 million
TBW – SSD Endurance	
› 256GB	120 TB
› 512GB	240 TB
› 1TB	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
DCP-IL1-025655NA	256 GB DARC-ssd 100 NVMe™ M.2 2280
DCP-IL1-051255NA	512 GB DARC-ssd 100 NVMe™ M.2 2280
DCP-IL1-001T55NB	1 TB DARC-ssd 100 NVMe™ M.2 2280



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