



# SES-120

## High-Performance Secure Encrypted Server

### Features

- Ensure top-tier security with Viasat's DARC-SSD® 600 drives
- Effortlessly transfer data with removable, high-reliability NVMe drives
- Streamline classified information handling during storage and transportation
- Maintain uninterrupted operations with removable dual-supply power redundancy and thermally engineered cooling
- Powerful processing with a range of 14th-Gen Intel® Core™ processors
- Maintains NATO Cosmic Top Secret compliance when powered on, and reverts to NATO Unclassified when powered off, allowing drives to be transported or handled without special security measures.



### Overview

Captec's SES range is a family of highly secure servers incorporating NCSC CAPS-evaluated technology to safeguard Official, Secret, and Top Secret information. The drives are also certified to UK Top Secret and NATO Cosmic Top Secret classifications. Featuring defense-grade AES-256 hardware encryption and a tamper-evident design, with front-panel removable and lockable high-reliability NVMe SSD drives, unlocked as a single drive set. Available in a compact 2U form factor with a wide range of I/O connectivity and processing power, storage, power supply, and pre-loaded OS.

Engineered with custom forced-air cooling to minimize throttling during heavy workloads. Optional ruggedization up to MIL Standard for deployment in demanding environments.

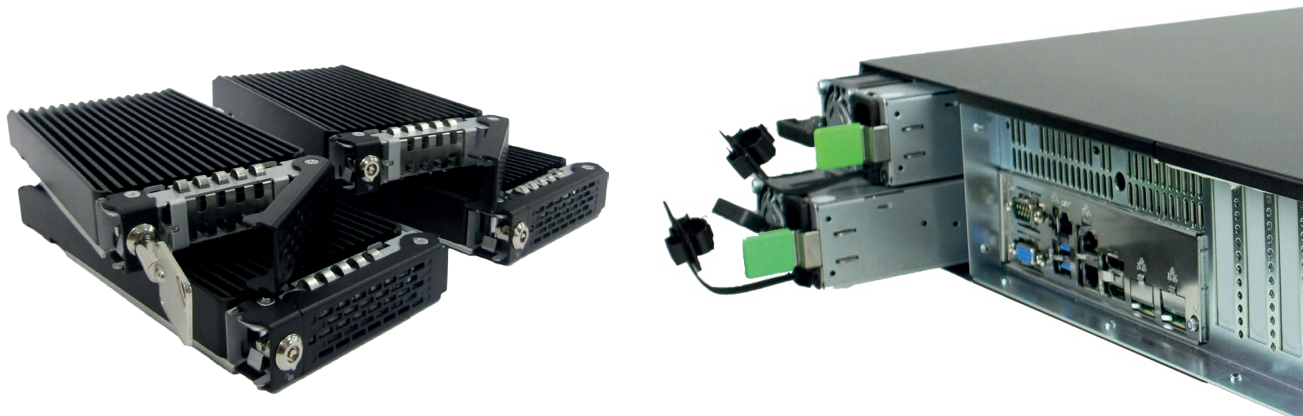
### Specifications

| SES-120        | A typical configuration could consist of:                                                                                                                                                                                                                          | SES-120             | Continued:                                                                                                                                                                                        |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CPU</b>     | <b>Commercial:</b><br>Intel® i9-14900K, 24 Cores, 3.2/6.0 GHz<br><br><b>Embedded:</b><br>Intel® i9-14900, 24 Cores, 2.0/5.8 GHz<br>Intel® i7-14700, 20 Cores, 2.1/5.4 GHz<br>Intel® i5-14500, 14 Cores, 2.6/5.0 GHz<br><br>*Clock Speed based on Performance Cores | <b>Rear I/O</b>     | 2 x 10Gb LAN, Intel® X710<br>2 x 1Gb LAN, Intel® i210<br>2 x USB 3.2 (Gen1) – Type A<br>1 x IPMI 2.0 Remote Management (RJ45)<br>1 x COM (DB9)<br>3 x Video (1 x VGA, 1 x HDMI, 1 x Display Port) |
| <b>Chipset</b> | Intel® Z690                                                                                                                                                                                                                                                        | <b>Expansion</b>    | 3 Slots: 1 x PCIe4.0 x16, 1 x PCIe4.0 x8<br>1 x PCIe3.0 x1                                                                                                                                        |
| <b>Memory</b>  | Up to 128GB DDR4, non-ECC RAM                                                                                                                                                                                                                                      | <b>Optional I/O</b> | Fiber LAN up to 100Gb<br>Wide range of GPUs from NVIDIA, AMD & Intel®<br>Integration of customer proprietary PCI-E cards                                                                          |
| <b>Storage</b> | Viasat DARC-ssd® 600 (AES-256 Encryption)<br>256GB, 512GB or 1TB<br><br>256GB ~ 8TB (Non-Encrypted)                                                                                                                                                                | <b>Graphics</b>     | Onboard Intel® UHD Graphics 770. Additional discrete graphics card options available                                                                                                              |
| <b>Disks</b>   | 1 to 4 x M.2 (2280) NVMe                                                                                                                                                                                                                                           | <b>Front I/O</b>    | 2 x USB 3.0 Type A ports<br>(for use with Viasat Keystone Token)                                                                                                                                  |

| SES-120          | Continued:                                                                                                                                                                                                                       | SES-120               | Continued:                                                                                 |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------------------------------------------------------------|
| Operating System | <b>Microsoft® Windows:</b><br>-Windows® 10 (64-bit)<br>-Windows® 11 (64-bit)                                                                                                                                                     | DVD                   | Custom build option on request                                                             |
|                  | <b>Linux:</b><br>-RedHat Enterprise Linux Server 8.5 (64-bit) / 7.9 (64-bit)<br>- CentOS 8.5 (64-bit) / 7.9 (64-bit)<br>- SUSE SLES 15.2 (64-bit) / 12.5 (64-bit)<br>- Ubuntu 21.10 (64-bit) / 21.04 (64-bit) / 20.04.4 (64-bit) | Dimensions            | 483W x 88H x 510D (mm)                                                                     |
|                  | <b>Hypervisor:</b><br>-VMWare® ESXi 7.0 U3d*<br>-VMWare® ESXi 6.7.0 U3                                                                                                                                                           | PSU                   | High reliability single, or dual redundant power supplies:<br>110 ~ 264V AC<br>18 ~ 36V DC |
|                  | *Please contact our sales teams to discuss your project requirements.                                                                                                                                                            | Form Factor           | 2U, 19" Rackmount Design (1U Variant available)                                            |
|                  |                                                                                                                                                                                                                                  | Weight                | Approx 12.5Kg, depending on configuration                                                  |
|                  |                                                                                                                                                                                                                                  | Construction          | Heavy duty cold rolled electroplated steel                                                 |
|                  |                                                                                                                                                                                                                                  | Operating Temperature | 0°C ~ +40°C                                                                                |
|                  |                                                                                                                                                                                                                                  | Storage Temperature   | -40°C ~ +70°C                                                                              |
|                  |                                                                                                                                                                                                                                  | Certification         | CE, RoHS, REACH                                                                            |

#### Additional Options

Ruggedized variants of the server up to MIL-STD are available, with variations such as a wider operating temperature range, shock and vibration resilience, enhanced EMC performance, custom defense connectors, and conformal coating.



## Viasat DARC-ssd® 600 Specifications

### ▼ NCSC CAPS EVALUATED TO PROTECT SECRET AND TOP SECRET INFORMATION

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 separately

### ▼ CLASSIFICATION STATUS

Maintains NATO Cosmic Top Secret compliance when powered on, and reverts to NATO Unclassified when powered off, allowing drives to be transported or handled without special security measures.

### ▼ FULL DRIVE ENCRYPTION

Including all data and OS

Secured upon system power-down and hibernation

### ▼ AES-256 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

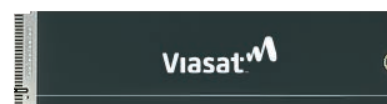
### ▼ TAMPER-EVIDENT DESIGN

All devices are covered in conformal coating

### ▼ ANTI-CLONE

DARC-SSD® 600 cannot be cloned once encryption is set

Token is protected against cloning



CAPTEC

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