



# SES-110

## 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



### Overview

Captec's SES range is a family of highly secure servers incorporating NCSC CAPS-evaluated technology, which is also certified to UK Top Secret and NATO Cosmic Top Secret classifications. Featuring military-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 1U form factor with a wide range of communications and I/O connectivity, and options for processing power, storage, power supply, and pre-loaded OS.

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

### Specifications

SES-110	A typical configuration could consist of:	SES-110	Continued:
<b>CPU</b>	<b>Commercial:</b> Intel® i5-14600K, 14 Cores, 3.5/5.3 GHz  <b>Embedded:</b> Intel® i9-14900, 24 Cores, 2.0/5.8 GHz Intel® i7-14700, 20 Cores, 2.1/5.4 GHz Intel® i5-14500, 14 Cores, 2.6/5.0 GHz  *Clock Speed based on Performance Cores	<b>Rear I/O</b>	2 x 10Gb LAN, Intel® X710 2 x 1Gb LAN, Intel® i210 2 x USB 3.2 (Gen1) – Type A 1 x IPMI 2.0 Remote Management (RJ45) 1 x COM (DB9) 3 x Video (1 x VGA, 1 x HDMI, 1 x Display Port)
<b>Chipset</b>	Intel® Z690	<b>Expansion</b>	1 Slot: 1 x PCIe4.0 x16
<b>Memory</b>	Up to 128GB DDR4, non-ECC RAM	<b>Optional I/O</b>	Fibre LAN up to 100Gb Wide range of GPUs from NVIDIA, AMD & Intel® Integration of customer proprietary PCI-E cards
<b>Storage</b>	Viasat DARC-ssd® 600 (AES-256 Encryption) 256GB, 512GB or 1TB 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 (for use with Viasat Keystone Token)

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Operating System	<b>Microsoft® Windows:</b> -Windows® 10 (64-bit) -Windows® 11 (64-bit)  <b>Linux:</b> -RedHat Enterprise Linux Server 8.5 (64-bit) / 7.9 (64-bit) - CentOS 8.5 (64-bit) / 7.9 (64-bit) - SUSE SLES 15.2 (64-bit) / 12.5 (64-bit) - Ubuntu 21.10 (64-bit) / 21.04 (64-bit) / 20.04.4 (64-bit)  <b>Hypervisor:</b> -VMWare® ESXi 7.0 U3d* -VMWare® ESXi 6.7.0 U3  *Please contact our sales teams to discuss your project requirements.	<b>Dimensions</b>	483W x 44H x 522D (mm)
		<b>PSU</b>	High reliability single, or dual redundant power supplies: 110 ~ 264V AC 18 ~ 36V DC
		<b>Form Factor</b>	1U, 19" Rackmount Design (2U Variant available)
		<b>Weight</b>	Approx 12Kg, depending on configuration
		<b>Construction</b>	Heavy duty cold rolled electroplated steel
		<b>Operating Temperature</b>	0°C ~ +40°C
		<b>Storage Temperature</b>	-40°C ~ +70°C
		<b>Certification</b>	CE, RoHS, REACH

#### Additional Options

Ruggedised 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 military 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

**Delivering end-to-end, like no one else.**  
Bring us your challenge & experience the difference.

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