

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
- 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 to safeguard official, secret and top secret information. 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 compact 2U form factor with a wide range of communications and I/O connectivity and options of processing power, storage, power supply and pre-loaded OS.

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

Specifications

SES-120	A typical configuration could consist of:	SES-120	Continued:
CPU	Commercial: Intel® i9-14900K, 24 Cores, 3.2/6.0 GHz Embedded: 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	Rear I/O	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)
Chipset	Intel® Z690	Expansion	3 Slots: 1 x PCIe4.0 x16, 1 x PCIe4.0 x8 1 x PCIe3.0 x1
Memory	Up to 128GB DDR4, non-ECC RAM	Optional I/O	Fibre LAN up to 100Gb Wide range of GPUs from NVIDIA, AMD & Intel® Integration of customer proprietary PCI-E cards
Storage	Viasat DARC-ssd® 600 (AES-256 Encryption) 256GB, 512GB or 1TB 256GB ~ 8TB (Non-Encrypted)	Graphics	Onboard Intel® UHD Graphics 770. Additional discrete graphics card options available
Disks	1 to 4 x M.2 (2280) NVMe	Front I/O	2 x USB 3.0 Type A ports (for use with Viasat Keystone Token)

SES-120	Continued:	SES-120	Continued:
Operating System	Microsoft® Windows: -Windows® 10 (64-bit) -Windows® 11 (64-bit)	DVD	Custom build option on request
	Linux: -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)	Dimensions	483W x 88H x 510D (mm)
	Hypervisor: -VMWare® ESXi 7.0 U3d* -VMWare® ESXi 6.7.0 U3	PSU	High reliability single, or dual redundant power supplies: 110 ~ 264V AC 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

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, bespoke 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

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)

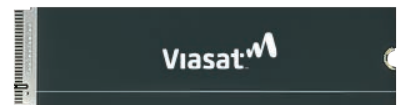
- No moving parts
- Provides performance and durability
- No noise – no spin or seek time, silent operation

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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