

## High Performance Secure Encrypted Server

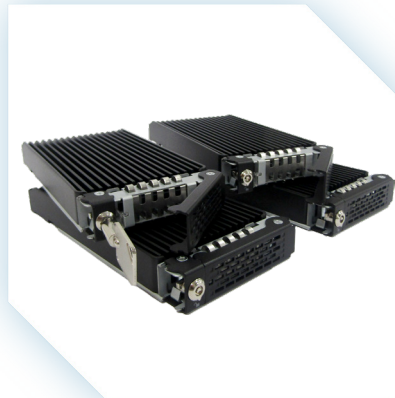
### Key Benefits

- ▶ Ensure top-tier security with Viasat's DARC-ssd<sup>®</sup> 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 13th Gen Intel<sup>®</sup> processors



The SES range is a new 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 custom forced-air cooling to minimize throttling during heavy workloads. Optional ruggedization up to MIL Standard for deployment in demanding environments.



## Server Specifications

SES-120	A typical configuration could consist of:
<b>CPU</b>	<b>Commercial:</b> Intel® i9-13900K, 24 Cores, 3.0/5.4GHz  <b>Embedded:</b> Intel® i9-13900, 24 Cores, 2.0/5.2GHz Intel® i7-13700, 16 Cores, 2.1/5.1GHz Intel® i5-13500, 14 Cores, 2.5/4.8GHz  *Clock Speed based on Performance Cores
<b>Chipset</b>	Intel® Z690
<b>Memory</b>	Up to 128GB DDR4, non-ECC RAM
<b>Storage</b>	Viasat DARC-ssd® 600 (AES-256 Encryption) 256GB, 512GB or 1TB  256GB ~ 8TB (Non-Encrypted)
<b>Disks</b>	1 to 4 x M.2 (2280) NVMe
<b>Graphics</b>	Onboard Intel® UHD Graphics 770. Additional discrete graphics card options available
<b>Front I/O</b>	2 x USB 3.0 Type A ports (for use with Viasat Keystone Token)
<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 DisplayPort)
<b>Expansion</b>	3 Slots: 1 x PCIe4.0 x16, 1 x PCIe4.0 x8 1 x PCIe3.0 x1
<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

SES-120	Continued
<b>Operating System</b>	<b>Microsoft® Windows:</b> -Windows® 10 (64 bit) -Windows® 11 (64 bit)  <b>Linux:</b> -RedHat Enterprise Linux Server 8.5 (64bit) / 7.9 (64bit) - CentOS 8.5 (64bit) / 7.9 (64bit) - SUSE SLES 15.2 (64bit) / 12.5 (64bit) - UBuntu 21.10 (64bit) / 21.04 (64bit) / 20.04.4 (64bit)  <b>Hypervisor:</b> -VMWare® ESXi 7.0 U3d -VMWare® ESXi 6.7.0 U3
<b>DVD</b>	Custom build option on request
<b>Dimensions</b>	483W x 88H x 510D (mm)
<b>PSU</b>	High reliability single, or dual redundant power supplies: 110 ~ 264V AC 18 ~ 36V DC
<b>Form Factor</b>	2U, 19" Rackmount Design (1U Variant available)
<b>Weight</b>	Approx 12.5Kg, 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
<b>Ordering Information</b>	Please contact our sales teams

### 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 military connectors, and conformal coating.

Please contact our sales teams below to discuss your project requirements.



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