



BullSequana Agility

BullSequana SA21Sa

The BullSequana Agility family features a versatile range of 1- and 2-socket BullSequana SA servers, manufactured in France and powered by the latest generations of AMD EPYC™ and Intel® Xeon® Scalable processors. The servers are ideally suited for virtualized workloads and all modern architecture patterns, such as private and hybrid clouds, containerized infrastructures, hyper-converged and scale-out solutions. Various GPU options enable acceleration of AI/ML, video processing and image rendering workloads. BullSequana SA servers are delivered as standalone units or fully integrated in racks, along with networking and storage components to drastically reduce time to value.

With 8 PCIe/OCF expansion slots, the **BullSequana SA21Sa** offers an incredible external connectivity capability, combined with dual 4th or 5th Gen AMD EPYC™ Series processors for extreme performance, and up to 28 drives, RAID protected, preferably full flash for IO intensive data processing. The BullSequana SA21Sa is recommended for large hyper-converged infrastructures and storage scale-out platforms, and workloads requiring extreme network bandwidth or extreme external storage IOs.

Features

- Dual AMD EPYC™ 9004 / 9005 Series processor
- 12-channel RDIMM DDR5, 24 x DIMMs
- Dual ROM technology supported
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 4 x 2.5" SATA/SAS hot-swappable bays on rear side
- 24x2.5" NVMe SAS/SATA hot-swappable bays
- Onboard 12Gb/s SAS expander
- 3 x Ultra-fast M.2 with PCIe Gen3 interface
- 6 x FHHL PCIe Gen5 expansion slots and 2 x OCP 3.0 Gen5 mezzanine slots
- Dual 2000W (240V) 80 PLUS Titanium redundant power supply



Technical specifications

Dimensions and Weight	2U (W438 x H87 x D815 mm) & 35 kg
CPU	AMD EPYC™ 9004 & 9005 Series processors Dual processors, cTDP up to 400W
Memory	24 x DIMM slots 12-Channel DDR5: memory per processor Memory speed: Up to 4800 MT/s (EPYC 9004) / up to 6400 MT/s (EPYC 9005)
LAN	2 x 1Gb/s LAN ports (1 x Intel® I350-AM2) Supported NCSI function 1 x 10/100/1000 management LAN
Video	Integrated in Aspeed AST2600 2D Video Graphic Adapter with PCIe bus interface 1920x1200@60Hz 32bpp,
Storage	4 x 2.5 NVMe/SATA/SAS hot-swappable bays 24 x 2.5" SATA/SAS hot-swappable bays SAS card is required for SAS devices support
Expansion Slots	4 x PCIe Gen5 x16 FHHL slots 2 x PCIe Gen5 x8 FHHL slot 2 x PCIe Gen5 x16 OCP 3.0 slots- supported NCSI function 3 x M.2 slots (M-key, PCIe Gen3 x4, NGFF-2280/22110)

*256GB: check for availability with your sales representative

Front I/O	2 x USB 3.2 Gen1
Rear I/O	2 x USB 3.2 Gen1, 1 x Mini-DP, 2 x RJ45, 1 x MLAN
Backplane I/O bandwidth	PCIe Gen4 x4 or SATA 6Gb/s or SAS 12Gb/s
TPM	1 x TPM header with SPI interface Optional TPM2.0 kit
Power supply	Dual 2000W (240V) 80 PLUS Titanium redundant power supply AC input: 100-240V
System fans	4 x 80x80x38 mm (18,300 rpm)
System management	Aspeed® AST2500 management controller Built-in html5 GUI iKVM RBAC, LDAP integration, RADIUS support SNMP, IPMI and Redfish management protocols SNMP trap, email and Redfish event notifications OneBSM for centralize monitoring of multiple BullSequana SA servers
Operating conditions	Operating temperature: 10°C to 35°C Operating humidity: 8-80% (non-condensing) Non-operating temperature: -40°C to 60°C Non-operating humidity: 20%-95% (non-condensing)
OS certified	Windows Server 2022 / 2025 VMware vSphere 8 / 9
Other OS Compatibility	Windows Server 2019 RHEL 8 / 9 SLES 15 Ubuntu 20 / 22 / 24 VMware ESXi 7 Citrix Hypervisor r 8.2 LTSR CU Please refer to your sales contact for OS compatibility detailed list