BullSequana EXR

High density edge data centre server delivering powerful AI inference capabilities

The BullSequana EXR is a high-density 1U edge server designed to deliver powerful and reliable compute performance where space, energy, and environmental conditions are challenging. Operating smoothly in 0–45°C environments, it leverages advanced power-optimisation features to minimise energy consumption without compromising performance. Its modular design supports flexible combinations of CPUs, GPUs, and storage, enabling seamless adaptation to evolving AI and analytics workloads. With integrated security and full remote manageability, the EXR ensures secure, efficient, and scalable operations across edge data centres.

Performance leap for next-gen AI use cases

Thanks to the extensive options for compute and storage, our servers have the potential to open a range of new use cases: AI inference, VR and AR solutions, smart glasses, generative AI and more. Benefit from low latency and better calibration of the AI models thanks to the flexible CPU/GPU acceleration. In addition, you can reduce the cost and complexity of edge installation and setup through customised factory pre-loads.

Hyperconverged infrastructure at the edge

Benefit from the performance, security, manageability and cost-efficiency for the compute and storage needs of applications in decentralised architecture (such as Mobile Edge Computing or remote offices and branches). Deploy workloads with high-performance, distributed storage needs such as real-time analytics, right at the edge.

Enhanced security, wherever you go

Computing at the edge requires enhanced security barriers. We designed BullSequana EXR servers to integrate Bull Root of Trust, a unique Bull solution to harden secured boot sequencing to prevent any alteration of the firmware. It also ensures that only Bull-signed firmware can be installed on the servers. The BullSequana EXR also provides a physical intrusion detection mechanism, which can alert administrators to unauthorised access while disabling the device and ensuring that all data at rest is encrypted.

Keep your expectations high, but your carbon footprint low

BullSequana EXR is equipped with up to two highly efficient Titanium-grade power supplies. The system offers innovative power capping and energy saving modes. Due to its configurability, it helps avoid oversising through a flexible choice of system components. All components have been carefully selected in order to meet the latest environmental responsibility standards. The system is assembled at the Bull factory in Angers, France. Its support for extended temperature ranges allows to minimise importantly cooling requirements.

Technical specifications

Form factor	• 1U ; 593mm depth
CPU options	• Intel® Xeon® 5 with 8/12/16/24 /28 cores • TDP max 185 Watt
GPU options	• 2x Nvidia A2, L4 or 1x Nvidia A16, L40S
Memory	• Up to 8 slots of DDR5 memory
PCIe 5 slots	• 2x FHFL
Storage options	• 6x SATA or 8x NVMe disks[1] • Optional extension of 2x M.2 NVMe disks

RAID options	• Intel VROC, MegaRAID controler (SATA)
Network interface controller (NIC)	• 4x 1Gb RJ45
System management services	• 1x 1Gb RJ45
USB ports	• Front: 2x USB2 type A • Rear: 4x USB3 type A and • 2x USB3 type C
VGA	• 1
COM1 (RS-232)	• 1
Network controller options	• 10Gb dual port PCIe card • 25Gb dual port PCIe card • 100Gb dual port PCIe card • 10Gb dual port Mezzanine card
PSU type	• 1200W
Optional PSU redundancy	• Yes
Efficiency rating	• Titanium
Operating temperature	• 0 to +45° C[2]
Operating humidity	• 5% to 95%
Software ecosystem certifications	• RedHat • Windows Server
Certification	• IEC 62368 • IEC 61010

[1] max. 6x NVMe disks if Mezzanine network adapter is configured

[2] limited to 40°C with high end GPUs L40S

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