

# Unlock new insights in real time with SAP HANA



**SAP**® Certified  
Hardware for SAP HANA®

**Atos**

HANA is a go-to element when it comes to evolving SAP landscapes and, more widely, for all big data environments where very high speeds are essential. Its potential and benefits provide both performance and innovation for the entire IT landscape.

The BullSequana S for SAP HANA platform delivers unique flexibility, unmatched scalability and best-in-class quality of service in the x86 world, essential criteria for in-memory databases and real-time computing. Combined with expertise and value-added services from Atos, it's an end-to-end solution for successful SAP HANA deployments in even the most critical environments.

## Designed to boost SAP HANA applications

### Perfect scalability

As the path to HANA often begins with small deployments that become progressively bigger, choosing a scalable solution is key. The same BullSequana S technology can be used for any SAP HANA deployment – from 384GB to 24TB of RAM. This protects investments, by providing a migration path for any SAP HANA architecture, at any scale.

### Maximum flexibility

The option of re-using existing environments (e.g. storage) and partitioning the system for cohabitation of existing and new environments creates the flexibility needed to reduce TCO. BullSequana S is certified for SAP HANA, whether in appliance (pre-integrated hardware, storage and software) for fast deployment, backed by central support and agreed performance levels; or also in Tailored Datacenter Integration (TDI) mode.

### Mainframe-class reliability

Reliability and resilience are essential where in-memory is concerned. Memory failure protection features make a real difference. PCIe components can be hot-plugged or hot-swapped to facilitate maintenance activities while providing best-in-class high availability.

### Future ready

BullSequana S provides the ability to side classical CPUs with GPUs for later developments, like SAP Leonardo.

## The benefits of BullSequana S for SAP HANA

**Adapt to change quickly** – Highly scalable and open solution

**Reduce cost and save implementation time** – One-fits-all solution: from small to very large configurations.

**Increase efficiency** – Designed to deliver high performance 7 days a week, 365 days a year.

## Supported by a worldwide network of skills

Atos is strongly committed to delivering advice and integration/migration expertise to ensure successful HANA implementations.

Building on a long and close relationship with SAP, serving leading SAP customers, Atos has developed a unique approach that helps enterprises fully benefit from the value of HANA.

Atos leverages its expertise to design, optimize and deploy complex SAP projects, and provides end-to-end solutions from infrastructure design and architecture optimization to tailored deliverables.

### Impressive SAP expertise across industries

13,500 SAP experts in 73 countries

6,200+ implementations

Over 3,000,000 end users supported, in over 90 countries

## Mission - critical SAP workloads on Microsoft Azure

The joint Atos and Microsoft initiative enables the deployment of SAP HANA Very Large Instances (VLI) in Azure bare-metal or virtualized environments

## The largest SAP HANA implementation in the world

Atos is supporting organizations of various sectors all over the world in their SAP HANA deployments. The most representative example is Atos helping Siemens to deploy the largest SAP HANA implementation in the world, which supports over 100,000 Siemens personnel and impacts every business unit within the Group.

# Find the configuration that fits your need

BullSequana S200



BullSequana S400



BullSequana S800



BullSequana S1600



<b>Max server memory size</b>	Up to <b>3 TB</b> RAM	Up to <b>6 TB</b> RAM	Up to <b>12 TB</b> RAM	Up to <b>24 TB</b> RAM
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## HANA certification

<b>BWoH/BW4H/DM/SoH/S4H</b>	384 GiB, 768 GiB, 1.125 TiB & 1.5 TiB*	2.25 & 3 TiB*	+ 6TiB & 4.5TB (6 CPUs), 6TB (8 CPUs)	12 TiB (16 CPUs) by 2-socket/1.5 TiB
<b>SoH/S4H</b>	2.25 & 3TB*	+ 4.5 & 6TB*	4.5, 6.75 & 9 TiB (6 CPUs), 12 TiB (8 CPUs)	24 TiB (16 CPUs) by 2-socket/3 TiB

\*max RAM size in single-node

SoH (Suite on HANA) is the name for SAP business suite using HANA as a database

S/4HANA is the new SAP Business Suite with highly optimized data structures taking full advantage of the SAP HANA platform

Scale out: - up to sixteen 4/8-CPU nodes for BWoH/BW4H/DM

- up to four 8-CPU nodes for S4H

## Summary of architecture and characteristics

<b>Processors</b>	Intel® Xeon® 2 <sup>nd</sup> generation Intel® Xeon® Scalable processors (up to 28 cores/38.5MB L3) with 8280 and 8276 models including L versions
<b>Number of BullSequana S modules</b>	1 BullSequana S server with 1, 2, or 4 or 8 modules with 2 x CPUs (model names are S200, S400, S800 and S1600, respectively)
<b>Memory</b>	32, 64 or 128GB DIMM units; from 384GB to 24TB in total depending on the model
<b>Disks / internal and external storage</b>	Appliance with internal storage (only with 8276 or 8276L): <ul style="list-style-type: none"> <li>• Boot : 2 x 400GB SATA SSD 2.5" (RAID 1) with embedded controller</li> <li>• SAP HANA pool: 3.2TB SAS SDD 2.5" from 2 to 34 based on minimal capacity requirements</li> </ul> Appliance with external storage: <ul style="list-style-type: none"> <li>• Boot: Boot on SAN</li> <li>• SAP HANA pool: 1 Dell EMC Unity® or 1 NetApp AFF A-Series (All-Flash)</li> </ul> TDI mode: <ul style="list-style-type: none"> <li>• Boot : choice between Boot on SAN or boot on 2 x 400GB SATA SSD 2.5" (RAID 1) with embedded controller</li> <li>• SAP HANA pool: on any storage in SAP TDI certified list – provided apart</li> </ul>
<b>Network interfaces</b>	Ethernet 1Gb/s (base-T) and 10/25/50 Gb/s (Base-T, Twinax, optical), 16/32 Gb/s (for external storage)
<b>OS / Virtualization</b>	SLES for SAP 12 & 15 , RHEL 7 & 8 for SAP solutions S200, S400 & S800 are certified by VMware for ESXi 6.7 and 7.0 which can be used for SAP Solutions / HANA TDI virtualized environments according to SAP rules
<b>Rack space required</b>	2U (S200), 4U (S400), 21U (S1600) + optional external storage

The physical partitioning is supported by SAP.

The BullSequana S for SAP HANA appliance is delivered with pre-integrated server and storage, with SUSE or Red Hat for SAP HANA and SAP HANA software pre-installed in their current versions. For more information on BullSequana S, SAP HANA, EMC Unity NetApp AFF A-Series and SAP certified hardware, please refer to the relevant documents.

# About Atos

Atos is a global leader in digital transformation with 109,000 employees and annual revenue of c. € 11 billion.

European number one in cybersecurity, cloud and high performance computing, the Group provides tailored end-to-end solutions for all industries in 71 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea), listed on Euronext Paris and included in the CAC 40 ESG and Next 20 Paris Stock indexes.

The purpose of Atos is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

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Let's start a discussion together



For more information: [atos.net/BullSequanaS4Hana](https://atos.net/BullSequanaS4Hana)

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