

# Unlock new insights in real-time with SAP HANA



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

**Atos**

# The best platform for SAP HANA applications

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 expertises and value-added services from Atos, this forms an end-to-end solution for successful SAP HANA deployments in even the most critical environments. Moreover the BullSequana S features Intel® Xeon® Scalable processors.

## Designed to boost SAP HANA applications

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### 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 12TB 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 possibility to side classical CPUs with GPUs for later developments, like SAP Leonardo.

## Supported by a worldwide network of skills

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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 helping 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

**13,000 SAP experts in 73 countries**

**6,200 + implementations**

**Over 3,000,000 end-users supported**

## The largest SAP HANA implementation in the world

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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.

## The benefits of BullSequana S for SAP HANA

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**Adapt to change quickly** - Scalable and open solution.

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

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

# Find the configuration that fits your need

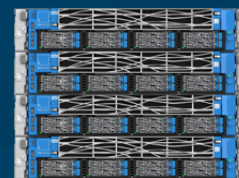
BullSequana S200



BullSequana S400



BullSequana S800



MAX SERVER MEMORY SIZE	Up to <b>3 TB</b> RAM	Up to <b>6 TB</b> RAM	Up to <b>12 TB</b> RAM
<b>HANA CERTIFICATION</b>			
BWoH/BW4H/DM/SoH/S4H	384 & 768GB, 1.15 & 1.5TB*	+ 2.25 & 3TB*	+ 34 & 45TB (6 CPUs), 6TB (8 CPUs)
SoH/S4H	2.25 & 3TB*	+ 4.5 & 6TB*	+ 6.75 & 9TB (6 CPUs), 12TB (8 CPUs)

\*max RAM size in single-node

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

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

**Scale out up to 16 nodes, includes HA capabilities for 4/8 CPUs for BWoH/BW4H/DM (up to 16\*3=48TB)**

SUMMARY OF ARCHITECTURE AND CHARACTERISTICS	
Processors	Intel® Xeon® Scalable processors (up to 28 cores/38.5MB L3) with 8280 and 8276 models
Number of BullSequana S modules	1 BullSequana S server with 1, 2, or 4 modules with 2 x CPUs (model name are respectively S200, S400 and S800)
Memory	32, 64 or 128GB DIMM units; from 384GB to 12TB in total depending on the model
Disks / internal and external storage	Appliance with internal storage (only with 8176M and 8176): <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 : 1.2TB SAS SSD / 3.2TB SAS SDD 2.5" from 2 to 32 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® 450F (All Flash), 2SP, 64GB cache per SP with 1 pool of 6 to 25 disks (1.92/3.84/7.68TB 2.5 SSD) depending on model</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>
Network interfaces	Ethernet 1Gb/s (base-T) and 10 Gb/s (Base-T, Twinax, optical), FC 16Gb/s (for external storage)
OS / Virtualization	Suse® SLES 12SP4 for SAP HANA / for SAP Solutions S200, S400 & S800 are certified by VMware for ESXi 6.0/6.5, which can be used for SAP Solutions / HANA TDI virtualized environments according to SAP rules
Rack space required	2U (S200), 4U (S400), 8U (S800) + SAN (Dell EMC Unity 450F in appliance mode)

The Physical Partitioning is supported by SAP.

The BullSequana S for SAP HANA appliance is delivered with pre-integrated server and storage, with Suse for SAP HANA and SAP HANA software pre-installed in their current versions. For more information on BullSequana S, SAP HANA, EMC Unity 450F and SAP certified hardware, please refer to the relevant documents.

# About Atos

Atos is a global leader in digital transformation with 120,000 employees in 73 countries and annual revenue of over € 12 billion.

European number one in Cloud, Cybersecurity and High-Performance Computing, the Group provides end-to-end Orchestrated Hybrid Cloud, Big Data, Business Applications and Digital Workplace solutions through its Digital Transformation Factory, as well as transactional services through Worldline, the European leader in the payment industry. With its cutting-edge technologies and industry knowledge, Atos supports the digital transformation of its clients across all business sectors. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and operates under the brands Atos, Atos Syntel, Unify and Worldline. Atos is listed on the CAC40 Paris stock index.

Find out more about us

[atos.net](https://atos.net)

[atos.net/career](https://atos.net/career)

Let's start a discussion together



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

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