



# BullSequana SH series

The best choice to leverage  
the full potential of SAP HANA



SAP® has integrated SAP HANA® at the very heart of its strategy: a database that delivers exceptional real-time performance to enable new business opportunities. To be successful, the introduction of SAP HANA needs a very strong, secure and performant infrastructure.

### SAP HANA in a few words

SAP HANA is a multi-model database that **stores data in its memory** instead of keeping it on a disk. The column-oriented in-memory database design allows you to run **advanced analytics alongside high-speed transactions in a single system**. Why is this so important? Because it lets companies process massive amounts of data with near-zero latency, query data in an instant, and become truly data-driven. By storing data in column-based tables in main memory and **bringing online analytical processing (OLAP) and online transactional processing (OLTP) together**.

# Focus product

**Introducing our BullSequana SH series designed to offer a secure and full potential use of your SAP HANA landscape. Our server is perfectly adaptable to scale-up configurations as recommended by SAP for HANA deployments.**

## Max configuration for SAP HANA use case

- From 2 to 16 sockets (CPUs) in a single server
- Scales in 2-socket increments to optimise your investment perfectly sized for your SAP HANA database
- Powered by Intel® Xeon® 6 processors or 4<sup>th</sup> and 5<sup>th</sup> Gen Intel® Xeon® Scalable Processors
- Up to 32TB DDR5 DRAM\*
- Up to 64 PCIe Gen5 hot-swappable slots
- Up to 64 x E1.S 5.9 mm NVMe SSDs (hot swap)
- Hotplug redundant 80+ Titanium PSUs

\*The maximum RAM supported by SAP HANA on a single node is capped at 32TB.



# Key benefits

## Unprecedented scalability



### Your need

Scalability is an essential prerequisite for straightforward growth and protecting your investment, while optimising your Total Cost of Ownership (TCO). SAP HANA often starts with a limited implementation, which rapidly evolves. This means being able to easily access more processors (cores) and larger memory capacities to absorb data growth.



### Our offering with BullSequana SH series

- BullSequana SH supports your SAP HANA needs up to 32TB memory and up to 16-socket while enabling the configuration that exactly fits your business needs.
- With the ability to scale up by 2-socket increments, you can avoid over-allocation of resources for future demand and reduce your carbon footprint.
- For full SAP HANA performance based on SAP code awareness with 4-socket blocks granularity, BullSequana SH also offers fully optimised 4-socket blocks configurations on its complete range.

## Exceptional flexibility



### Your need

SAP HANA solutions on BullSequana SH offers the possibility to deploy either SAP HANA appliances, combining fully certified hardware granting maximum performance and software components, or SAP HANA Tailored Data center Integration (TDI) solutions. TDI offers more openness and freedom of choice to configure the layer for SAP HANA by re-using existing storage or network and therefore optimising your TCO. TDI (phase 5) can also allow to reduce your hardware investment by using the configuration closest to your needs in terms of CPU, memory and storage. For both options, BullSequana SH is the right choice.



### Our offering with BullSequana SH series

- BullSequana SH series for SAP HANA is based on the BullSequana SH server including the best-in-class NVMe storage, either internal or external with Bull storage partners.
- BullSequana SH integrated solution for HANA is delivered with a pre-installed and pre-tested infrastructure with certified Linux OS (Red Hat® or SUSE®) and SAP HANA software. Therefore, providing a turnkey solution ready to deploy at customer site.
- In a memory-constrained market, BullSequana SH scales up to 16 sockets, offering the widest CPU-to-DIMM combinations to reach the required memory capacity.

## Strong security & reliability



### Your need

With increasing cyberattacks, security is no longer an option for your critical business running on SAP HANA. BullSequana SH helps organisations to protect their data, avoiding downtimes and cyberattacks.



### Our offering with BullSequana SH series

- Several thousand control points per rack and early warning features that anticipate potential breakdowns and simplify preventive maintenance.
- In addition to embedded Intel® Xeon® Processors native hardware security features, BullSequana SH also provides hot plug redundant 80+ Titanium PSUs and hot swap components.
- For example, to tackle the memory failures concerns, we provide a Memory Rank Sparing mechanism which enables to automatically copy the data from the failing rank to the spare rank with no performance penalty.
- To protect their data from the core to the cloud by creating a chain of trust without compromising performance

# Our value proposition



## TCO reduction

Get the configuration closest to your needs, reduce operational costs and drive down software costs. Last generation provides a better consolidation and reduces by 66% the HW invested



## Great flexibility

Meet customer business needs, choice of storage and processor Integrated System or Tailored Datacenter Integration (TDI)



## High scalability

Pay as you grow , no need for over-provisioning flexible and easy upgrade path (Bull is the only manufacturer to provide 6s configuration)



## High performance

Whatever the server model, performance and scalability guaranteed with a handful of disks or with external storage



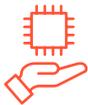
## High availability

Mainframe class servers, hot swap components, chain of trust



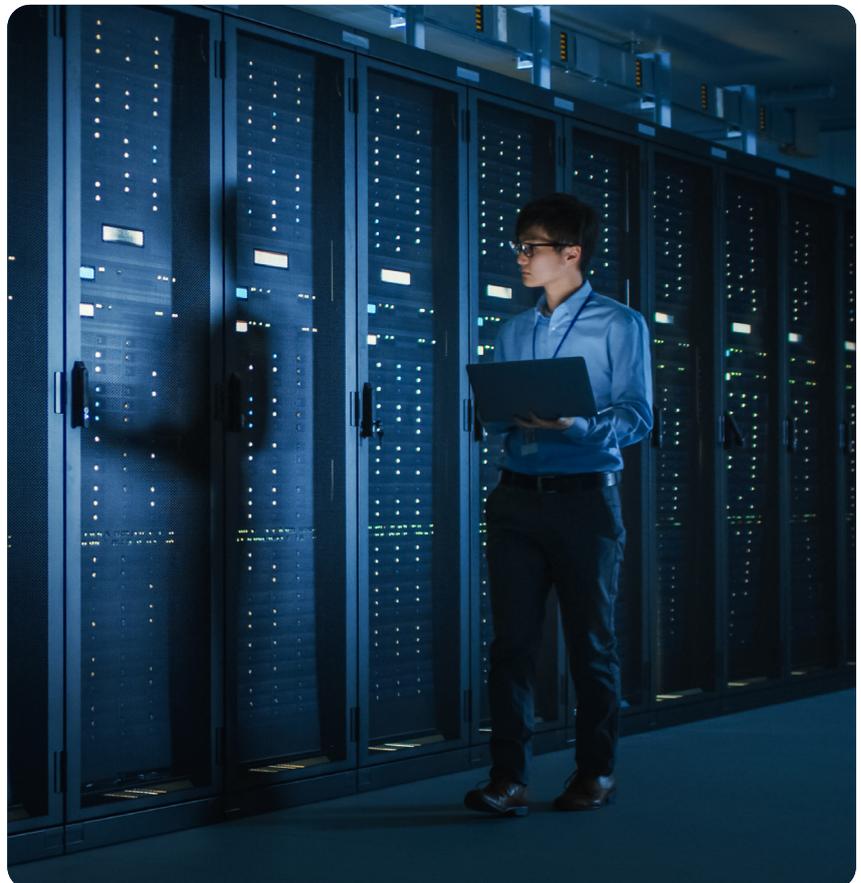
## Fully certified by SAP

Appliance and TDI environments



## Wide CPU-DIMM combinations options

BullSequana SH's 16-socket design delivers unmatched CPU-DIMM combinations (64-256 GB) to meet any memory need in a constrained market

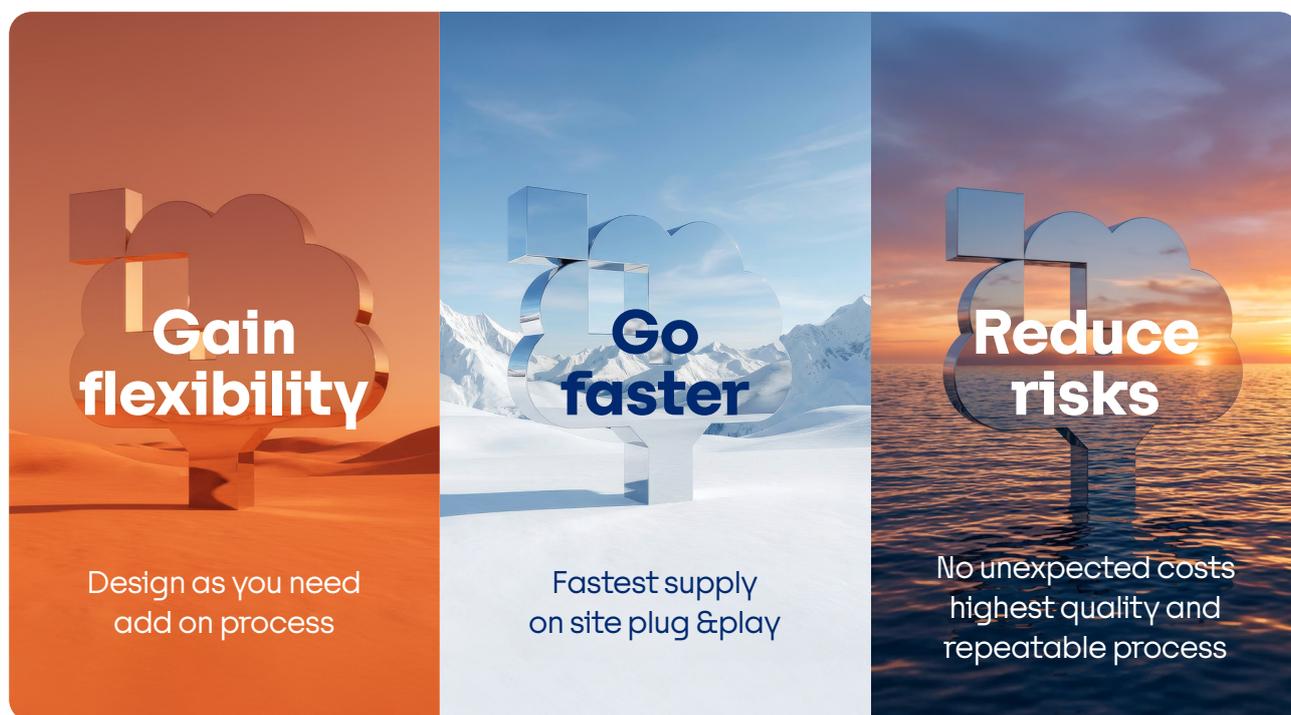


# Benefit from our exclusive Bull industrialisation service

## Bull services

With our BullSequana SH benefit from exclusive services from Bull

- Design your ready-to-use infrastructure
- Benefit from a tailored industrialisation process
- Flex and Scale with Opex or Capex
- Manufacturing and R&D in Europe



Thanks to our strong partnership with SAP, we are able to provide a sizing expertise to design the most suitable infrastructure for your needs.



Health



Retail



Cloud providers



Telco operators



Administration governments



Transports



Finance companies



Energy

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