



BullSequana SH series

In-memory computing to
deploy your critical & AI
applications with confidence



Next step to hybrid computing solutions



63% of organisations

Don't place missions-criticals workloads into public cloud



43% of IT decision makers

Fear their IT infrastructure won't be able to handle future data demands

BullSequana SH

A state-of-the-art generation of x86 servers based on Intel® Xeon® processors with innovative capabilities to address these new business needs.

BullSequana SH meets the demands of enterprises, cloud providers and hyperscalers in terms of security, scalability, reliability, performance and energy efficiency.



Greater business agility



Protecting your most valuable assets



Efficient on-demand scalability



Maintenance on your investment



Lower total cost of ownership (TCO)



High energy efficiency



Security

Introducing the BullSequana SH

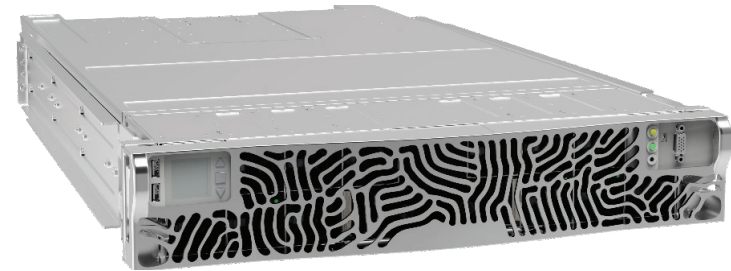
Tailored for your high performance on-premises & cloud workloads

- **Faster response** to business demands
- Improved **manageability and serviceability**
- **Helping businesses achieve their sustainability goals** with best-of-breed technologies and services
- **Data protection from the core** to the cloud by creating a chain of trust without compromising performance



Unprecedented features to meet all markets requirements

Tailored for your high performance on-premises & cloud workloads



- From 2 to 16 sockets in a single server
- Scale in 2-socket increments
- Powered by Intel® Xeon® 6 processors or 4th and 5th Gen Intel® Xeon® Scalable Processors
- Up to 64TB DDR5 DRAM
- Up to 64 PCIe Gen5 hot-swappable slots
- Up to 16 GPUs
- Up to 64 NVMe SSDs
- Hotplug redundant 80+ Titanium PSUs

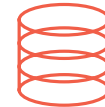
Use cases

BullSequana SH offers full benefits for in-memory applications & beyond.

Benefit from our certifications with our partners :



ORACLE



In-memory applications & critical large databases and analytics (SAP HANA, Oracle...)



Bare metal for specific workloads requiring large computing capacities

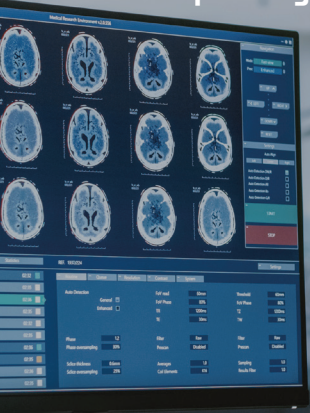


Large virtualisation possibilities



Artificial Intelligence

Responding to all markets needs



Health



Retail



Cloud Providers



Telco Operators



Administration Governments



Transports



Finance Companies



Energy

Security-by-design preserving performance

**By 2026, 65%
of IT organisations**

will only purchase infrastructures that incorporate predictive cyber-resiliency mechanisms proven to reduce post-cyber intrusion recovery efforts



Leverage new built-in Intel® Xeon® processors security features



Bull Trusted Execution Architecture hosting improved Security Functions



Bull Product Security Incident Response Team (PSIRT)

From vulnerability to patch

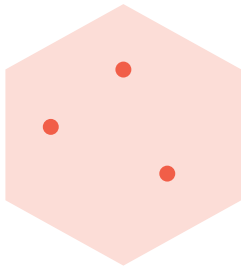
Hardware Enhanced Security with

- Intel® Trust Domain Extensions (Intel® TDX)
- Intel® Software Guard Extensions (Intel® SGX)
- Cryptographic Memory Integrity option



- NIST 800-193 Recoverable platform using ARM TrustZone technology
- Chains-of-trust for detection, upgrade, recovery
- Hardware Root-of-Trust with public cryptographic keys anchored in silicon
- Hardened µOS developed from EAL7 certified ProvenCore software

Better help to achieve your sustainability goals



Bull factory, Angers, France R&D, Les Clayes & Grenoble, France



Use of energy efficient components

- DDR5 achieves 30% greater power efficiency vs DDR4.
- 80 PLUS Titanium Power Supply Units with up to 96% efficiency
- Built-in accelerators avoiding to add power hungry resources (CPU, memory, ...)
- Direct Liquid Cooling (DLC) option



No over-provisioning of resources for future demand

- Efficient scalability by 2 CPU increments for all types of workloads



Intelligent power management features at the system level

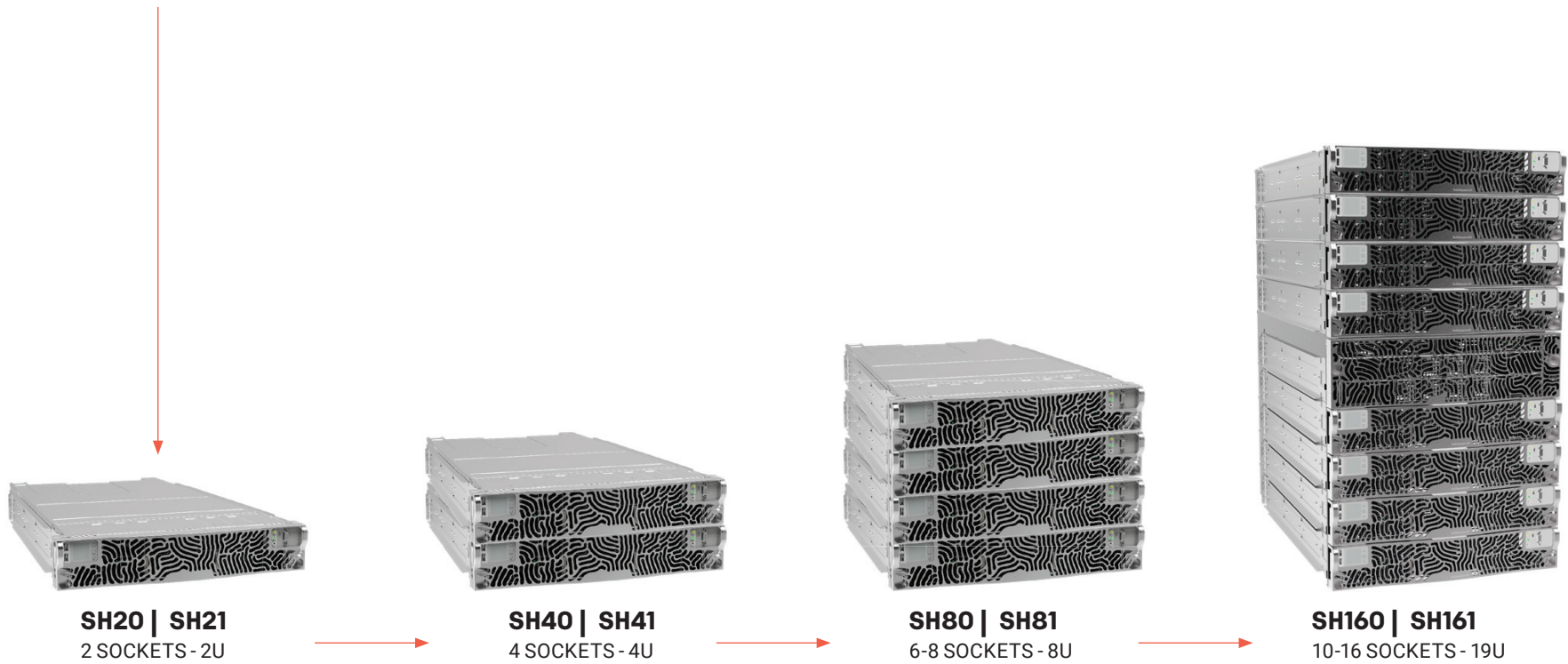
- Power capping, Eco-mode, ...
- Intel® Optimised Power mode support



Compliant with environmental regulations

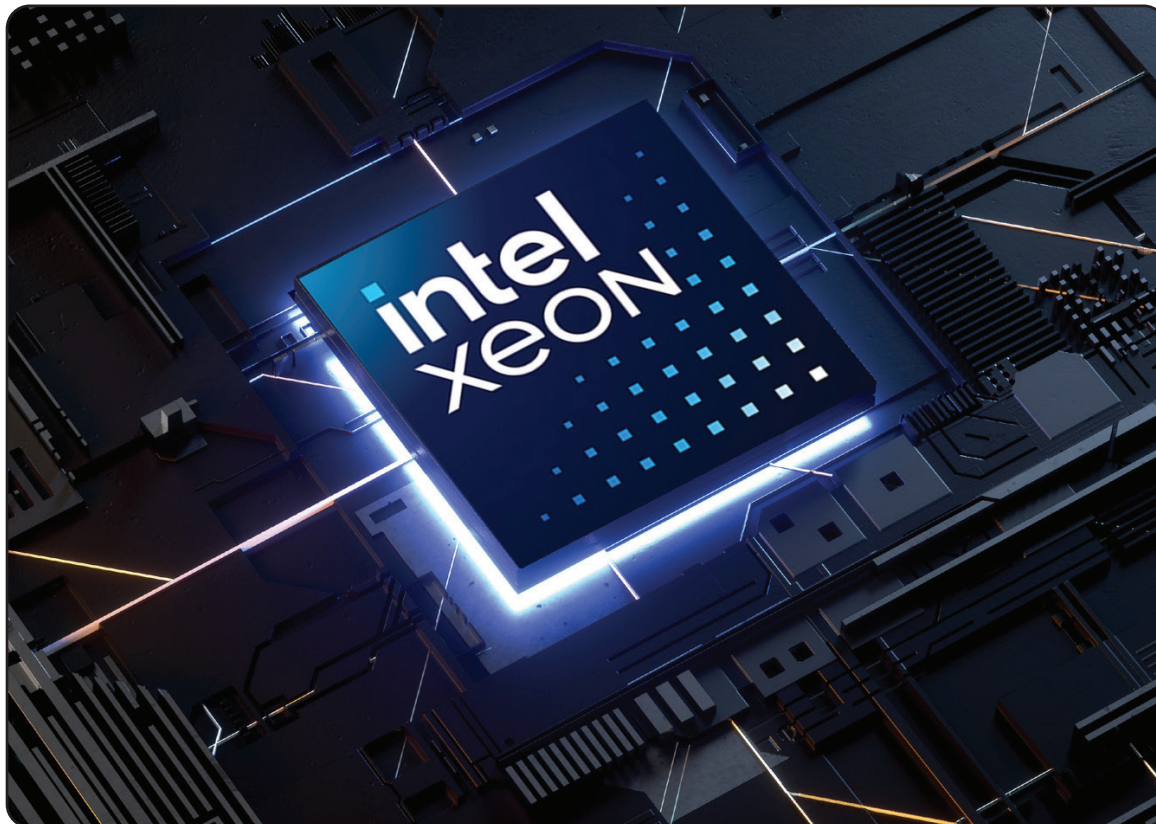
- Ecodesign (ErP Lot9), RoHS, REACH, WEE....

BullSequana SH scalability & use cases



SH20/SH21, SH40/SH41 & SH80/SH81
can be upgraded by 2 CPUs up to SH160/SH161

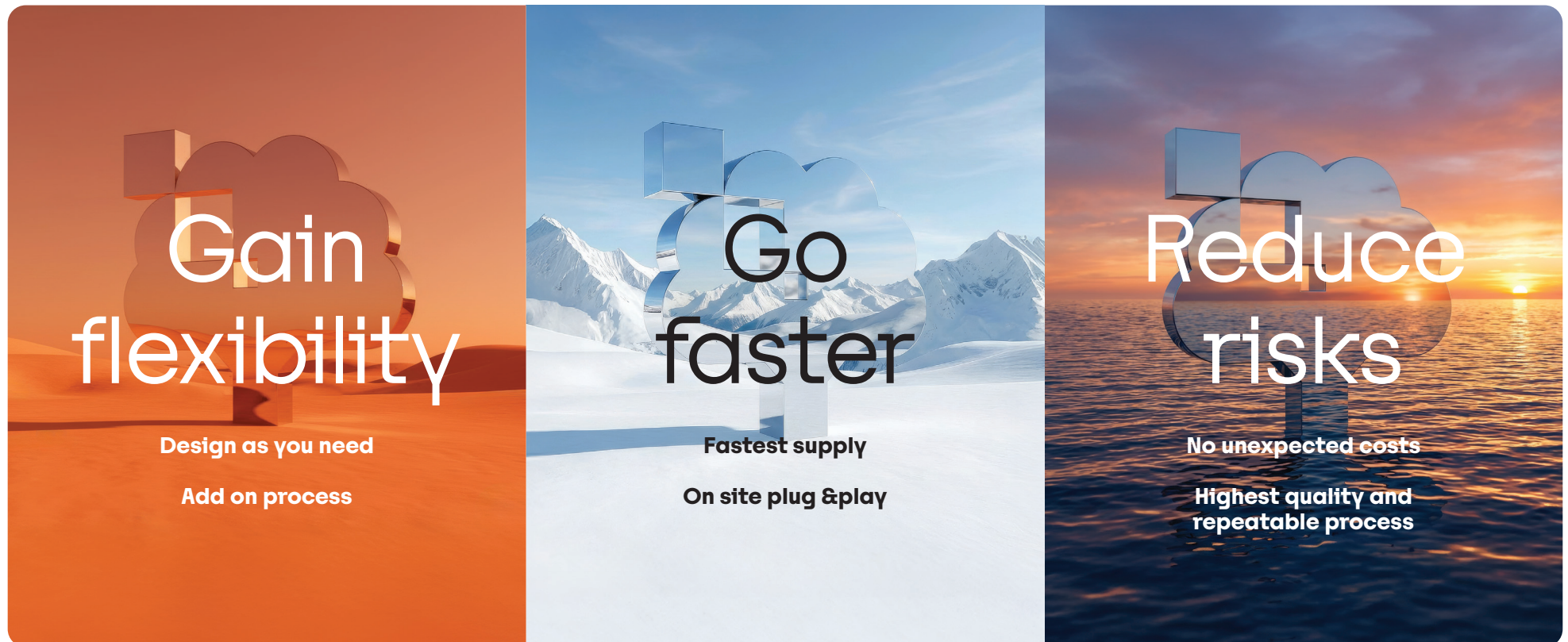
Intel® Xeon® 6 processors or 4th and 5th Gen Intel® Xeon® Scalable Processors



- Mission-critical applications
- Performance optimised
- Outstanding scalability
- Investment protection
- Optimised TCO through consolidation
- SAP HANA, Databases, In-Memory applications
- Advanced virtualisation, large VMs , Bare metal
- Data Analytics, AI
- Private and Hybrid clouds

With our BullSequana SH, benefit from exclusive services from Bull?

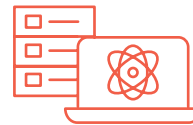
- Design your ready-to-use infrastructure
- Benefit from a tailored industrialisation process
- Flex and scale with OpEx or CapEx
- Unique server manufacturer in Europe



#1

Bull, recognised industrial leader

- #1 HPC player in Europe, India and South America
- Recognised R&D, manufacturing capabilities, AI and data science expertise
- Global leader in high-performance computing, artificial intelligence and quantum innovation



- Bull designs, deploys and runs hardware and software
- Recognised manufacturer of enterprise high-end servers
- Pioneer on the quantum computer
- 58 supercomputers listed in the TOP500 ranking and top 3 positions in the Green500



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Bull-CS-BR-BullSequana_SH series-Landscape-CMYK-v2