

bullion S2

the most advanced workspace for fast data

By leveraging the Bull technologies in mission-critical applications and supercomputing, Atos brings to the market a complete range of x86 servers, bullion™.

bullion reaches the highest level of quality of service, performance, availability and scalability to meet the 3 big challenges an IT Department is facing: Data Center optimization, IT modernization and Big Data efficient implementation.

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Optimize your Data Center

Data Centers have to accompany the rise of Cloud, Big Data and mobility, whilst guaranteeing the relevant levels of service.

Designed for the private cloud and targeting next generation Software Defined Data Centers (SDDC), bullion is the right answer to consolidate, rationalize and virtualize your Data Centers. Efficiency generator, bullion dramatically enhances users' financial equation, providing more performance and agility.

Modernize your IT

Ensuring the right evolution of application environment is a key success factor for any IT modernization project. It has to be based on highly reliable, powerful, open and scalable platforms or servers. You have all that with bullion!

New usage trends of the digital world are now at your reach: Cloud, mobility (Bring Your Own Device: BYOD), Big Data. Moreover, Liber proposes its unique approach, combining a proven methodology and Bull products to industrialize migration of legacy applications.

Make sense of your data

Big Data is now in everyone's mind. How shall you properly manage the never ending growth of data volume, velocity, variety, and transform them into an asset for your organization? With its unique memory capacity, bullion provides unrivalled features to analyze data in real-time: you are ready for the In-Memory journey.

A powerful and modular range

The bullion server range consists of 4 complementary models, sharing the same innovative technologies, embarking from 2 to 16 Intel® Xeon® E7 v3 processors, with a maximum memory capacity of 24 TB, unmatched on the market.

Depending on their needs, the users simply add 3U compute modules, connected via the Connecting Box, a patented system inherited from Bull to get rid of cabling. For more agility in configuring, bullion servers propose innovative design with hot plug memory and I/O blades.

bullion S2 in brief

The bullion S2 server, with one 3U module, perfectly fits in with the range dynamics - best in class reliability & availability features, thanks to its capacity of up to 2 processors and 3 TB of memory. It provides up to 36 cores and 72 threads to host Virtual Machines (VM) clusters, critical database or In-Memory applications

Dedicated Atos services

Coming with the bullion range, Atos proposes a full set of added value services, such as Service Assurance, to optimize operations, and Liber, to modernize the application environment.

Our best experts support our specific offers, including power audits or architecture consulting. Atos technical briefing centers are open to share field experience on real case studies with dedicated workshops and hands-on sessions.



Technical specifications

DESIGN		SECURITY	
Form factor	19" 3U	2-level password	Yes
PROCESSORS		POWER SUPPLY*	
Numbers	2 sockets, max 36 cores and 72 threads	Hot-plug PSU	1+1
Type	Intel® Xeon® Processor E7 v3 Family 4, 8, 10, 12, 14, 16 or 18 cores	Power supply number	2, redundant Active / passive power-supply solution with ultra-capacitor (UCM)
L3 cache	Up to 45MB shared cache	Power type	Label 80+ Platinum, 94% efficient
ARCHITECTURE		Power consumption	750watt or 1600watt w/PFC (PF=0.95)
Chipset	Intel® C602J Chipset	Auto-sensing	220V 60/50Hz
Quick Path Interconnect	Max 9.6GT/s	COOLING*	
MEMORY BLADES		Fan specifications	6 hot plug, n+1 redundant
Min / max	Min: 48GB, max configuration: 3TB	PHYSICAL SPECIFICATIONS*	
Type	DDR3, DDR4 (Post RTS) RDIMM, LR-DIMM	Size (HxLxP)	130 (3U) x445mm (19") x820mm (max). Recommended to use Bull racks
Memory blades capacity	48GB, 96GB, 192GB, 384GB	Weight	Up to 45kg
Memory blade	Up to 8 blades, 6 slots/blade	Operating constraints	10°C to 35°C, gradient 20°C/h, 20% to 60%, gradient 5%/h
Memory availability	Hot plug memory blades	OS & SOFTWARE	
I/O BLADES		Management Software	Bull System Manager, Bull iCare, Bull Platform Manager
BUS	PCIe Gen3 x8	Operating System	Red Hat® Enterprise Linux, VMware® vSphere ESXi™, Microsoft® Windows Server
I/O blades	Up to 7 blades, hot swap	SYSTEM MANAGEMENT	
I/O availability	Hot plug blades	BMC	IPMI 2.0
I/O BLADES TYPES		Remote Management	Standard via on-board iBMC
NIC I/O blade	1GbE: 2 or 4 ports per I/O blade 10GbE: 2 ports per I/O blade	AVAILABILITY & RAS FEATURES	
HBA I/O blade	8Gb/s: 2 ports per I/O blade 16Gb/s: 2 ports per I/O blade	Memory RAS features	ECC, Enhanced SDDC, Enhanced DDDC, Memory Sparing, MCA recovery, hot-add memory blade
Flash I/O blade	SSD Flash 1TB	Hot plug devices	Memory blades, I/O blades, disk drives, power supplies, fans, UCM.
SAS I/O blade	12Gb/s: 2 ext. ports per I/O blade	Redundancy	Power supplies, fans, QPI paths, BCS2 connection (XQPI paths)
STORAGE		Serviceability	Hot-add for memory blades
Chassis drive bays	Up to 2x HDDs, hot plug	WARRANTY & SERVICES	
Internal add-on disks (EBOD)	12 Gb/s SAS connectivity up to OS max. capacity	Standard warranty*	3 years warranty
Hard drives	3.5" NL SAS 2.5" SAS 10Krpm & 15Krpm 2.5" SSD SAS	Warranty extension	Bull Global Care
Storage Controller (optional)	1x I/O blade with RAID 0/1/10	Other services	<ul style="list-style-type: none"> ▶ IT infrastructures Advisory, energy audits ▶ Service Assurance ▶ HA, capacity & performance management ▶ Installation & integration services
SAN	EMC, NetApp, Bull Optima	REGULATOR & SAFETY	
EMBEDDED I/O PORTS		Regulatory compliance	CE, UL/CSA, RoHS
NIC	2x 1Gb Ethernet ports		
Management port	1x Ethernet port for System Management		
PS/2port (mouse, keyboard)	USB or iBMC		
USB ports	3		
VIDEO			
Video Controller	Via iBMC		
Memory	8 MB		

* excluding storage module

For more information: <http://www.bull.com/bullion>

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