Bull

Escala E1-1000

The most compact Power10 server designed for business-critical workloads and edge computing

This scale-out server is engineered to optimise data centre space and run workloads at the edge, while maintaining the performance, security, and reliability of an enterprise server.

Increased performance for business-critical applications

The ESCALA E1-1000 offers 2.5X more performance per core than an E2-800. Clients can boost business-critical application performance, optimise data centre space, and run workloads and database in locations with limited infrastructure or remote offices.

Optimised physical footprint

The E1-1000 is available as a half-wide 2U rack or a compact tower format. This half-wide design allows clients to reduce their IT footprint by up to 75%[1], facilitating modernisation and densification projects.

Lowered IT infrastructure costs and energy consumption

Running multiple virtual servers on a single physical server improves resource utilisation and reduces energy consumption. Consolidating environments onto fewer systems lowers electrical, cooling, and data center space costs, reducing the carbon footprint. With Bull High Availability software, it offers cost-effective solutions for clients seeking business continuity and expanding applications from core to cloud and edge. The Escala E1-1000's advanced thermal and power management, coupled with its energy-efficient design, enables up to 75% energy savings[2].

Tower format

Half-wide 2U rack

Run AI inferencing workloads at the edge

Thanks to its small size and cost-effectiveness, the E1-1000 is the perfect choice for edge environment reducing the latency for data processing. The Power10 chip accelerators (4 MMA engines /core and 8 SIMD engine /core) make this server an effective solution for AI inferencing at the edge, without the costly expense, maintenance, or noise disturbance associated with GPUs. This enables clients to gain immediate business insights by running AI inferencing models at data generation points, cutting down latency compared to centralised data centers or cloud connections.

1 Consolidate 2x E4-1000 1S 4c 64Gb (8U, 129.4 rPerf) onto 2x E1-1000 1S 4c 64Gb (2U, 130.4 rPerf).
2 At equal performance, consolidate 2x E2-800 4c or 6c servers or consolidate 2x E2-900 4c servers onto 1 E1-1000.

Technical Specifications

Form factor	• Half-wide 2U rack or tower chassis
# of sockets	• 1
Processor module offerings	• 4-core – 3 to 3.9 GHz • 8-core – 3 to 3.9 GHz
# of memory channels	• 4 OMI channels
Max memory bandwidth	• 102 GB/s • w/ 16, 32, 64GB ISDIMMs
# of DIMMs	• 4 ISDIMMs (identical pairs)
Max memory capacity	• 256 GB
Max PCIe lanes	• 64 PCIe Gen4 @ 16 Gbps
PCIe slots	• 2 PCIe G4 x16 or G5 x8 • 2 PCIe G5 x8
Slots for internal storage	• General purpose
# internal drives	• 4 NVMe U.2

Internal storage capacity	• up to 6.4 TB
I/O expansion drawer	• N/A
Active Memory Expansion	• In option
Active Memory Mirroring	• N/A
Service Processor & Management	• Enterprise BMC (eBMC) • Optional HMC
PowerVM™	• Enterprise Edition included
AIX rPerf (max)	• 4-core: 130.4 ; 8-core: 234.1
AIX support	• 7.2, 7.3 or later
Linux support	• RHEL 9.2 or later • Red Hat OpenShift Container Platform 4.9 or later
IBM I support	• 7.3, 7.4, 7.5 • Contact Bull representative for more details

3 rack mounted options

E1-1000 + filler, to start & Edge	E1-1000 + optional RDX for backup	2x E1-1000, for High Availability & Edge

Bull and IBM: a perfect fit

Since 1992, Bull and IBM have built a unique relationship, with IBM leading to a highly productive technological cooperation. This has fundamentally strengthened the AIX ecosystem, by regularly generating innovations, in areas such as scalability, RAS, virtualisation and cloud enablement.

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