Escala E1-1100

The most compact Power11 server designed for business-critical workloads and edge computing

This entry-level 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.

Up to 3x better core performance	Up to 2x better core performance	Up to 75% energy and footprint savings
Vs. Power8	Vs. Power9	through consolidation

Increased performance for business-critical applications

The Escala E1-1100 boosts 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 Escala E1-1100 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 centre 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 E1-1100'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 E1-1100 is the perfect choice for edge environment reducing the latency for data processing. The Power11 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 centres or cloud connections.

[1] Consolidate 2x E2-800 1S 4c (4U, 63 rPerf) onto 1x E1-1100 1S 4c (half 2U, 148,8 rPerf).

[2] At equal performance, consolidate 2x E2-800 4c or 6c servers or consolidate 2x E2-900 4c servers onto 1x E1-1100.

Technical specifications

Form-factor	Half-wide 2U rack or tower chassis
# of sockets	1
Processor module offerings	• 4 cores – 3.6 à 4 GHz • 10 cores – 3.05 à 4 GHz
Cache Per Cores L2, L3	2 MB, 8 MB
# of memory channels	4 OMI channels
Max memory bandwidth	256 GB/s with 32, 64, 128 GB DDIMMs
# of DIMMs	4 DDIMMs DDR5 (identical pairs)
Max memory capacity	512 GB (4000/4800MHz)
PCIe HHHL slots	• 2 PCIe Gen4 x16 • 2 PCIe Gen4 x8
Slots for internal storage	Generic purpose
# internal drives	4 NVMe U.2

Internal storage capacity	Up to 12.8 TB
I/O expansion drawer	• ½ I/O Drawer (Rack Only) • No RDX, no NVMe drawer
Active Memory Expansion	In option
Active Memory Mirroring	In option
Service Processor & Management	• Enterprise BMC (eBMC) • Optional HMC / vHMC
PowerVM™	Enterprise Edition included
AIX rPerf (max)	• 4 cores : 148.8; • 10 cores: 298.7
AIX support	7.2, 7.3 or later
Linux support	• RHEL 9.6 or later • Red Hat OpenShift Container Platform 4.22 or later
IBMi support	7.4, 7.5, 7.6 or later Contact Bull representative for more details

2 rack mounted options

E1-1100 + filler, to start & Edge

2× E1-1100 for High Availability & Edge

Bull & 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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