

Ideal solution as an application, mid sized database or departmental consolidation server

Escala E5-700

Escala E5-700 server delivers the leading performance of the POWER7™ processor. Its key assets, performance, capacity, energy efficiency and virtualization capabilities, make it an ideal departmental consolidation, database or application server.

More performance in the same energy envelop

The innovation of POWER7 processors and virtualization technologies with Escala E5-700 brings significant green benefits along with record breaking performance level. Escala E5-700 power supply complies with 80+ Gold standard, which means that at least 88% of the energy going through the power supply units is really used by the server. Specialized energy management and browser-based virtualization software make it easier than ever to increase server utilization and energy efficiency while reducing infrastructure costs by using the optional PowerVM™ Editions.

Leading edge virtualization features

PowerVM offers the capability to dynamically adjust system resources based on workload demands so that each partition gets the resources it needs. Active Memory™ Expansion, a new POWER7 technology, enables the effective maximum memory capacity to be much larger than the true physical memory. Innovative compression /decompression of memory content can enable memory expansion up to 100 percent. This can enable a partition to significantly more work or enable a server to run more partitions with the same physical amount of memory.

Addressing a broad range of use cases

As a departmental consolidation server, it is designed to provide superior availability and efficiency while reducing infrastructure costs. The flexibility to use AIX operating system, along with Bull ARF, Bull System Manager and Bull Performance Report broadens the application offerings available and increases the ways clients can manage growth, complexity and risk.

Configurability and efficiency

Built for attachability, Escala E5-700 server offers ultimate configuration flexibility to meet highly demanding capacity and growth requirements. Customers have extensive growth potential in a choice of 19-inch rack-mount packages supporting up to four POWER7 processor cards each with eight 64 bit 3.0GHz, 3.3GHz or 3.55GHz processor cores.

A full set of related services

Our leading experts have developed specific offerings, such as energy audit, virtualization, business continuity and high availability (HA999) that perfectly match with Escala E5-700.

PRODUCT SPECIFICATIONS



Architect of an Open World™

Technical specifications – Escala E5-700

ARCHITECTURE	
Processor type	64-bit POWER7™
Number of cores	8, 16, 24, 32 at 3.0 GHz or 3.3 GHz / 6, 12, 18, 24 at 3.3 GHz / 32 at 3.55 GHz
Number of sockets	1 – 4 (one per processor card)
Entitled Oracle license	Standard Edition
Performances (max)	3.0 GHz: 81.24 (8), 155.99 (16), 224.23 (24), 292.47 (32) 3.3 GHz: 70.07 (6), 134.54 (12), 193.40 (18), 252.26 (24) 3.3 GHz: 86.99 (8), 167.01 (16), 240.08 (24), 313.15 (32) 3.55 GHz: 331.06 (32)
STANDARD CONFIGURATIONS	
Form factor	19" rack drawer (4U)
Processor / cores	6 – 24 (6 cores per processor card) / 8 – 32 (8 cores per processor card)
Cache Level 2 (L2)	256 KB per core
Cache Level 3 (L3)	4 MB per core
RAM (memory)	8 GB to 512 GB of RDIMM DDR3, Active Memory Expansion
Internal disk bays	Eight 2.5" Serial Attached SCSI (SAS) 146GB or 300GB/10Krpm, 73GB or 146GB/15Krpm
Internal SAS disk storage	2.4 TB up to 21.6 TB
Media bays	One slimline and one half-high
Adapter slots	Two PCI-X (266 MHz (DDR)), Three PCI Express 8x
STANDARD I/O ADAPTATERS	
Integrated Virtual Ethernet	Four Ethernet 1Gb ports, (option), or Two 10Gb Ethernet ports (option)
Other ports	Three USB, two HMC, two system ports
EXPANSION FEATURES (optional)	
High performance PCI adapters	4Gb/8Gb Fibre Channel, 10 Gb Ethernet
I/O expansion	8 x 6 PCI-X or PCI-E/18 disks
GX adapters	1B, 2x GX
GX slots	Two (each shares space with and replaces one PCI Express 8x slot)
PowerVM TECHNOLOGIES	
POWER Hypervisor™	LPAR, Dynamic LPAR, Virtual LAN (Memory to memory inter-partition communication)
PowerVM Express Edition (optional)	Up to three partitions on the server, virtualized disk and optional devices (VIOS), shared Processor Pool, and Integrated Virtualization Manager (IVM)
PowerVM Standard Edition (optional)	PowerVM Express Edition plus Micro-Partition with up to 10 micro-partitions per processor; Multiple Shared Processor Pools; Virtual I/O Server with IVM; Shared Dedicated Capacity
PowerVM Enterprise Edition (optional)	PowerVM Standard Edition plus Live Partition Mobility
PERFORMANCE MANAGEMENT	
	Bull Performance Report (Optional)
OPERATING SYSTEMS	
	Bull AIX 5L V5.3/6.1 (standard) Red Hat AS4, 5 (optional)
HIGH AVAILABILITY	
	Bull ARF V5, V6, V7; PowerHA V5.4, V5.5 (optional)
POWER REQUIREMENTS	
Operating temperature	5 to 35 degrees C
Relative humidity	8% to 80%
Operating voltage	200 to 240 V, 80+ compliant
Power consumption	1725 watts
Thermal output	4 778 Btu/hour
SYSTEMS DIMENSIONS	
	Rack drawer 175 mm x 440 mm x 730 mm; weight : 54.4Kg I/O drawer 1B 178mm x 482mm x 610mm; weight : 45.9Kg I/O drawer G30 178mm x 445mm x 610mm; weight : 20.0Kg
WARRANTY	
Standard warranty	1 year

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