

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

Escala PL860R/T

High-performance POWER6™ processors for application and database serving or Linux consolidation, with virtualization software to improve server utilization and energy efficiency.

Leading edge virtualization capabilities

The innovation of POWER6 processors and virtualization technologies with the server Escala PL860 brings significant benefits for application and mid-size database serving. As a consolidation server, it is designed to provide superior availability and efficiency while reducing infrastructure costs. The flexibility to use both AIX and Linux operating systems broadens the application offerings available and increases the ways clients can manage growth, complexity and risk.

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.

Exceptional reliability, availability and serviceability (RAS) features

which are designed to deliver near-continuous application availability and allow more work to be processed with less operational disruption.

Configurability and efficiency

Built for attachability, Escala PL860 server offers tremendous configuration flexibility to meet most capacity and growth requirements.

Clients will have extensive growth potential in a choice of 19-inch rack-mount or desktside packages supporting up to four POWER6 processor cards each with two 64 bit 3.5GHz, 4.2GHz or 5.0GHz processor cores. Each card has 8MB of L2 cache and from 1GB to 64GB of DDR2 memory so a maximum configuration may have eight processor cores, 128MB of L3 cache and 256GB of memory.

Escala PL860 server has five PCI slots (three PCIe 8x and two 64-bit DDR 2.0

PCI-X) and contains six 3.5" SAS disk bays, which can accommodate up to 1.8 TB of disk storage. All disk bays are direct dock and hot-swappable.

The server offers two Ethernet 10/100/1000 Mbps ports or optionally four Ethernet 10/100/1000 Mbps or two 10 Gigabit Ethernet ports.

PRODUCT SPECIFICATIONS



Architect of an Open World™

Technical specifications – PL860R/T

ARCHITECTURE	PL860R/T
Processor type	POWER6™ 64-bit POWER6 dual-core
Number of cores	2; 4; 6; 8 (3.5GHz, 4.2GHz or 5.0GHz)
Number of sockets	4
Entitled Oracle license	Standard Edition
Performances (max)	15.85; 31.27; 45.05; 58.80 (3.5GHz)
	18.38; 36.28; 52.24; 68.20 (4.2GHz)
	21.18; 41.81; 60.20; 78.60 (5.0GHz)
STANDARD CONFIGURATIONS	
Form factor	Deskside or 4U 19-inch rack-mount packaging
Processor / cores	Two, four, six or eight 64-bit 3.5 GHz or 4.2GHz POWER6 with AltiVec SIMD accelerator
Level 2 (L2) cache	8MB per processor card
Level 3 (L3) cache	32MB per processor card
RAM (memory)	3.5GHz: 1GB to 128GB of DDR2 SDRAM 4.2GHz/5.0GHz: 1GB to 256GB of DDR2 SDRAM
Internal disk bays	Six 3.5" Serial Attached SCSI (SAS) 73.4GB, 146GB or 300GB 15Krpm
Internal SAS disk storage	Up to 1.8 TB; up to 30.6 TB with eight optional I/O drawers D20
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	Two Ethernet 10/100/1000 Mbps ports, or Four Ethernet 10/100/1000 Mbps 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 Fibre Channel, 10 GB Ethernet
I/O expansion	8 x 6 PCI-X or PCI-E/18 disks
GX adapters	RIO-2, 12x 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) Up to three partitions on the server, virtualized disk and optional devices (VIOS), shared Processor Pool, and Integrated Virtualization Manager (IVM)
PowerVM Express 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 Standard Edition (optional)	PowerVM Standard Edition plus Live Partition Mobility
PowerVM Enterprise Edition (optional)	
PERFORMANCE MANAGEMENT	
Bull Performance Report	Optional
OPERATINS SYSTEMS	
AIX 5L V5.3/6.1	Standard
Red Hat AS4, 5 ; Novell/Suse SLES 9, 10 for POWER	Optional
HIGH AVAILABILITY	
ARF V5, V6, V7	Optional
PowerHA V5.4, V5.5	Optional
POWER REQUIREMENTS	
Operating temperature	from 5 to 35 degrees C
Relative humidity	from 8% to 80%
Operating voltage	from 100 to 127 or 200 to 240 V, 80+ compliant
Power consumption	1 400 watts
Thermal output	4 778 Btu/hour
SYSTEMS DIMENSIONS	
Deskside	540mm x 183-283 mm x 778 mm; weight : 54.4Kg
Rack drawer	175 mm x 440 mm x 730 mm; weight : 54.4Kg
I/O drawer D20	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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