

Powerful open server with advanced virtualization features

Escala PL6460R



- For Data centers supporting large-scale transaction processing and database applications
- For large scale server consolidation to increase flexibility and lower operational and energy cost rise
- For enterprises requiring the highest levels of RAS features for their mission-critical applications.

Unique level of reliability, availability and performance for the Unix Data Center

Escala PL6460R server is the top-end Escala server based on 64-bit POWER6™ processors designed for critical and complex open Data Center applications. Equipped with ultra-high frequency POWER6™ processors in up to 64-core, multiprocessing (SMP) configurations, Escala PL6460R server scales rapidly and seamlessly to address the changing needs of today's data center. Escala PL6460R server benefits from the very latest developments in the Escala, server family, in particular « Live Partition Mobility » and « Workload Partitions ».

Performance, flexibility and high availability for the environment service

Escala PL6460R is designed for critical and complex open Data Center applications involving large-scale databases. The advanced POWER and AIX virtualization functions, such as Live Partition Mobility and Workload Partitions, deliver service continuity and resource optimization, generating substantial savings in power consumption.

This represents a fundamental step forward in the move to tackle issues surrounding sustainable development. With Bull Application Rollover Facility (ARF™), Bull provides an innovative high availability clustering solution. The new ARF release supports the "LPM" and "WPAR" functions. To simplify the task of managing virtualized infrastructure performance, Bull is further strengthening its Bull Performance Report, which provides a global, integrated and analytic view of virtualized environments around Escala.

Making BULL competence centers more accessible to our customers

Bull's centers of expertise have given their active role in recent hardware and software developments for servers based on POWER6 and AIX6 technologies. Bull's customers will be able to draw on the full range of expertise available in these centers to define, deploy, implement and monitor their complex infrastructures. The centers' service offerings range from architecture definition and scoping of application environments through the Proofs of Concept (POC). More specifically, the centers play a key role in the area of service continuity, middleware and infrastructure rationalization.

PRODUCT SPECIFICATIONS



Architect of an Open World™

Technical specifications – PL6460R

ARCHITECTURE	
System packaging	42U, 24" system frame + expansion frames (4 max)
Number of processors cores /system	8 to 64 processors
Processor type (SMP)	64-bit POWER6™
Clock rates available	4.2 GHz or 5.0 GHz
Min/ Max memory system	16GB to 4TB
Level 2 (L2) cache	8 MB/ pair of processors
Level 3 (L3) cache	32 MB/ pair of processors
RAS FEATURES	
Chipkill™ memory	standard
Service processor	standard
Hot-swappable disks (internal and external)	standard
Dynamic Processor Deallocation	standard
Hot-plug slots	standard
Redundant Hot-plug power and cooling	standard
CAPACITY AND EXTENSION	
Power on Demand (POD)	Yes
PowerVM Express Edition	Not applicable
PowerVM Standard Edition	Not applicable
PowerVM Enterprise Edition	Standard
Maximum logical partitions/ micro-partitions	254
Maximum PCI-E slots (64bit) with one 24" I/O drawer	20 PCI-E per drawer 24"
Maximum PCI-E (64bit) with I/O drawers 24"	600 PCI-E
Maximum PCI-E bus speed (MHz)	2GB/s
Maximum internal disk per drawer/ maximum internal disk storage	26/ 7,8TB (26 x 300Go)
I/O drawer 24" required / Optional 24" I/O drawers	1/32
Max disk bays/ storage with 24" I/O drawers	832/ 249,6TB (disk SAS)
Bull StoreWay disk subsystems	Optional
EMC2 disk subsystems (AX, CX, DMX)	Optional
NetApp disk subsystems	Optional
MEDIA BAYS	
DVD Rom/Ram de base	1
Maximum slots available (slimline size)	3
External Tape drive (VXA or DAT)	Optional
COMMUNICATIONS & CONNECTIVITY	
Integrated USB ports / HMC	16 / 4 Standard
Integrated SCSI ports	4
Integrated SCSI controller	4
10 Gigabit Ethernet	Optional
4 Gigabit Fibre Channel	Optional
4x GX	No applicable
12x GX	Optional
RIO-2	Standard
OPERATING SYSTEM	
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 / V6.3 or PowerHA V5.4, V5.5	Optional
PERFORMANCES	
Max rPerfs	72,58 ; 142,90 ; 266,51 ; 373,60 ; 479,89 (4,2GHz); 87,10 ; 164,67 ; 307,12 ; 450,53 ; 553,01 (5,0GHz)
SPECIFICATIONS	
Operating temperature	10 to 28 degrees C
Relative humidity	20% to 80%
Operating voltage	200 to 240 V
Power consumption	27 500 watts
Thermal output	93 840 Btu/hour
SIZE	
Height x Width x depth (mm)	2 014mm H x 775mm W x 1 806mm D
WARRANTY	
Standard warranty	1 year, Customer Replacement Unit (24*7)

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