

Modular and scalable systems for business flexibility and IT efficiency



Escala PL 1660R / PL 1660R-L

- Advanced POWER 6 processor cores for enhanced performance and reliability.
- Building block architecture delivers scalability and modular growth
- Advanced virtualisation features facilitate highly efficient systems utilisation
- Enhanced reliability, availability and serviceability features for improved application availability.

Outstanding Price/Performance

The POWER6 processor-based Escala 1660R mid-range server delivers outstanding price/performance, mainframe-inspired reliability and availability features, flexible capacity upgrades and innovative virtualisation technologies. This powerful 19-inch rack-mount system, which can handle up to 16 POWER6 cores, can be used for database and application serving, as well as server consolidation.

Modularity and Scalability

The modular Escala PL1660R and PL1660R-L are designed to continue the tradition of its predecessor, the POWER5+ processor-based PL1650R server, for resource optimisation, secure and dependable performance and the flexibility to change with business needs.

POWER6 Advanced Technology

Escala PL1660R is the first server designed with POWER6 processors, resulting in performance and price/performance advantages while ushering in a new era in the virtualisation and availability of AIX® and Linux® data centers.

POWER6 processors can run 64-bit applications, while concurrently supporting 32-bit applications to enhance flexibility. They feature simultaneous multi-threading, allowing two application 'threads' to be run at the same time, which allows completion of more tasks in any given period of time.

POWER6 Enhancements

With the introduction of POWER6 processor-based technology, exciting advances in performance, RAS and virtualisation bring new perspectives to the world of IT compute efficiency. A new Integrated Virtual Ethernet adapter comes standard with every system, paving the way to easier virtualisation of high-speed Ethernet connections.

Superior virtualisation capabilities

The virtualisation capabilities are further enhanced with Partition Mobility, offered as part of the optionally available PowerVM feature. This function is designed to move running partitions from one POWER6 server to another with no downtime

PRODUCT SPECIFICATIONS



Architect of an Open World™

Technical specifications – Escala PL1660R/PL1660R-L

ARCHITECTURE	PL1660R	PL1660 R-L
Building block packaging	19" - 4U per "building blocks"	19" - 4U per "building blocks"
Max building blocks per system / max U's	4 (16U)	2 (8U)
Number of cores (processors) per system	2, 4, 8, 12 or 16	4, 8 or 16
CPU core clock rate	3.5 GHz / 4.2 GHz / 4.7 GHz	3.6 GHz
Processor (Dual chip Module)	64-bit POWER6™	64-bit POWER6™
System Memory per building block (min-max)	2 GB – 768 GB	8 Go – 384 Go
L3 cache	32 MB to 256 MB	32 MB to 256 MB
VIRTUALISATION CAPABILITIES		
Maximum Logical Partitions	160	160
Power on Demand (PoD) support	Yes	No
Advanced Virtualisation Features	Optional	Optional
Live Partition migration	Optional with PowerVM Enterprise	Optional with PowerVM Enterprise
Integrated Virtual Ethernet	Yes	Standard
MEDIA BAYS		
Slimline bays per building block	1	1
Internal Tape drive	N / A	N / A
DVD RAM / ROM	Optional	Optional
External Tape drive (VXA or DAT)	Optional	Optional
EXPANDABILITY		
Slots for hot-swap PCI adapters in base drawer	8 x PCI-X and 6 x PCI express	4 x PCI and 8 x PCI express
Slots for hot-swap SAS disk drive bays per drawer	6	6
Internal disk capacity	10.8 Tb (24 disk x 450Gb)	5.4 To (12 disks x 450Gb)
Expansion drawers	32 x 6 PCIx or 16x 10 PCIe/18 disks	12 x 6 PCIx or 6x 10 PCIe/18 disks
Additional expandability through drawers	288 PCIx slots or 160 PCIe/ 288 disks	72 PCIx slots or 60 PCIe/ 108 disks
Bull StoreWay disk subsystems	Optional	Optional
EMC2 disk subsystems	Optional	Optional
Netapp disk subsystem		Optional
Overland and STK Libraries	Optional	Optional
RAS FEATURES		
Chipkill™ ECC, bit-steering memory	Standard	Standard
Service processor	Standard	Standard
Hot-node add	Standard	Standard
Cold-node repair	Standard	Standard
Dynamic processor disactivation	Standard	Standard
Redundant Service processor	Optional	Optional
Redundant hot-plug fans	Standard	Standard
Redundant hot-plug power supply	Standard	Standard
COMMUNICATIONS CONNECTIVITY		
Ports USB / serial* / HMC	2 / 2 / 2 Standard	2 / 2 / 2 Standard
Dual port Ethernet Gb	Optional	Optional
Ethernet quad port Gb	Optional	Optional
Dual part 10Gb adapter	Optional	Optional
CONSOLES		
HMC	Optional	Optional
IVM (Integrated Virtualization Manager)	Optional	Optional
OPERATING SYSTEMS		
AIX 5.3/6.1	Standard	Standard
Red Hat AS4, 5 ; Novell/Suse SLES 9, 10	Optional	Optional
HIGH AVAILABILITY		
ARF V5, V6, V7 or PowerHA 5.4, 5.5	Optional	Optional
PERFORMANCE		
Max rPerfs with AIX 5.3	105.75 (3,5 GHz); 127.32 (4,4GHz);141.21 (5.0 GHz)	100.3
SPECIFICATIONS		
Operating temperature	5 to 35 degrees C	5 to 35 degrees C
Relative humidity	8% to 80%	8% to 80%
Operating voltage	200 to 240 V	200 to 240 V
WARRANTY AND EXTENSION		
Standard warranty	1 year Customer Replacement Unit (CRU)	1 year CRU
Warranty extension	Optional	Optional

* not available if HMC present

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