Power is performance redefined

IBM Power Systems

Deliver services faster

Deliver services with higher quality

Deliver services with superior economics

In the new era of Smarter Computing where an IT infrastructure is designed for data, tuned to the task, and managed with cloud technology, Power is performance redefined.

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	BladeCenter® PS700 Express	BladeCenter PS701 Express	BladeCenter PS702 Express	BladeCenter PS703 Express	BladeCenter PS704 Express	Power 710 Express (Gen2 PCIe)	Power 720 Express (Gen2 PCIe)	Power 730 Express (Gen2 PCIe)	Power 740 Express (Gen2 PCIe)	Power 750 Express Used in Watson	Power 755	Power 770 (Gen2 PCIe)	Power 780 (Gen2 PCIe)	Power 795
System package	Blade Server / BladeCenter	Blade Server / BladeCenter	Blade Server / BladeCenter	Blade Server / BladeCenter	Blade Server / BladeCenter	2U, 19" rack	4U, 19" rack or tower	2U, 19" rack	4U, 19" rack	4U, 19" rack	4U, 19" rack	4U/node, 19" rack (1-4 nodes)	4U/node, 19" rack (1-4 nodes)	24" system frame (1-8 proc books)
# of processor sockets	1	1	2	2	4	1	1	2	1 or 2	1, 2, 3, 4	4	2, 4, 6, 8	2, 4, 6, 8 or 4, 8, 12, 16	4 – 32
Processor Options – GHz (cores/sockets) – # of cores	3.0 GHz (4-core) 4	3.0 GHz (8-core) 8	3.0 GHz (8-core) 16	2.4 GHz (8-core) 16	2.4 GHz (8-core) 32	3.0 GHz (4-core) 4 3.7 GHz (6-core) 6 3.55 GHz (8-core) 8	3.0 GHz (4-core) 4 3.0 GHz (6-core) 6 3.0 GHz (8-core) 8	3.0 GHz (4-core) 8 3.7 GHz (6-core) 8 3.7 GHz (8-core) 12 3.55 GHz (8-core) 16	3.3 GHz (4-core) 4, 8 3.7 GHz (4-core) 4, 8 3.7 GHz (6-core) 6, 12 3.55 GHz (8-core) 8, 16	3.2 GHz (8-core) 8, 16, 24, 32 3.6 GHz (8-core) 8, 16, 24, 32 3.7 GHz (4-core) 4, 8, 12, 16 3.7 GHz (6-core) 6, 12, 16, 24	3.6 GHz (8-core) 32	3.3 GHz (8-core) 4 – 64 3.7 GHz (6-core) 4 – 48	3.92 GHz (8-core) 4 – 64 4.14 GHz (4-core)[2] 4 – 32 3.44 GHz (6-core) 4– 96	3.7 GHz (6-core) 24 – 192 4.0 GHz (8-core) 24 – 256 4.25 GHz (4-core)[3] 24 – 128
Min – max. memory (clock freq MHz) (min Active)	8 – 64 GB (1066)	16 – 128 GB (1066)	32 – 256 GB (1066)	16 – 256 GB (1066)	32 – 512 GB (1066)	4 – 128 GB (1066)	4-core 4 – 64 GB (1066) 6- or 8-core 4 – 256 GB (1066)	8 – 256 GB (1066)	1-socket 8 – 256 GB 2-sockets 8 – 512 GB (1066)	8 – 512 GB (1066)	128 – 256 GB (1066)	64 GB – 4 TB (1066) (32 GB)	64 GB – 4 TB (1066) (32 GB)	64 GB – 8 TB (1066) (32 GB)
Max CEC disk bays / SSD bays / GB/TB storage	2 / 1.2 TB	1 / 600 GB	2 / 1.2 TB	1 / 600 GB	2 / 1.2 TB	6 / 3.6 TB	8 / 4.8 TB	6 / 3.6 TB	8 / 4.8 TB	8 / 4.8 TB	8 / 2.4 TB	Max per node 6 / 1.8 TB Max per sys 24 / 7.2 TB	Max per node 6 / 1.8 TB Max per sys 24 / 7.2 TB	Use I/O drawers
Max CEC PCI slots[1]	Expansion Cards 1 PCIe CIOv 1 PCIe CFFh	Expansion Cards 1 PCIe CIOv 1 PCIe CFFh	Expansion Cards 2 PCIe CIOv 2 PCIe CFFh	Expansion Cards 1 PCIe CIOv 1 PCIe CFFh	Expansion Cards 2 PCIe CIOv 2 PCIe CFFh	5 PCIe LP	5 PCIe + 4 PCIe LP (opt)	5 PCIe LP	5 PCIe + 4 PCIe LP (opt)	3 PCIe and 2 PCI-X	3 PCIe and 2 PCI-X	6 PCIe per node 24 per system	6 PCIe per node 24 per system	Use I/O drawers
Max disk bays with I/O drawers	2 + 12 bays if BladeCenter S	1 + 12 bays if BladeCenter S	2 + 12 bays if BladeCenter S	1 + 12 bays if BladeCenter S	2 + 12 bays if BladeCenter S	102	380	378	416	584	164	1344	1344	4032
Max PCI slots w/ 12X PCI-X I/O drawers	N/A	N/A	N/A	N/A	N/A	5 PCIe LP and 0 PCI-X	5 PCIe and 24 PCI-X	5 PCIe LP and 0 PCI-X	5 PCIe and 48 PCI-X	1 PCIe and 50 PCI-X	3 PCIe and 2 PCI-X	24 PCIe and 192 PCI-X	24 PCIe and 192 PCI-X	600
Max PCI slots w/ 12X PCIe I/O drawers	N/A	N/A	N/A	N/A	N/A	5 PCIe LP	25 PCIe	5 PCIe LP and 20 PCIe	45 PCIe	41 PCIe and 2 PCI-X	3 PCIe and 2 PCI-X	184 PCIe	184 PCIe	640
AIX® rPerf Ranges	45.1	81.2	154.3	134.1	251.4	45.1 – 91.9	45.1 – 81.2	86.6 – 176.5	48.3 – 176.5	52.2 – 334.9	N/A	147.5 – 606.8	197.6 – 886.6	273.5 – 2978.1
IBM i CPW Ranges	21,100	42,100	76,300	64,000	110,000	23,800 – 51,800	23,800 – 46,300	44,600 – 97,700	25,500 – 97,700	27,300 – 183,200	N/A	77,000 – 321,000	106,000 – 363,000	149,100 and up[4]
Capacity on Demand options	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	CUoD, On/Off, Utility Trial	CUoD, On/Off, Utility Trial	CUoD, On/Off, Utility Trial
Warranty	3-yr 9x5, next business day	3-yr 9x5, next business day	3-yr 9x5, next business day	3-yr 9x5, next business day	3-yr 9x5, next business day	3-yr 9x5, next business day	3-yr 9x5, next business day	3-yr 9x5, next business day	3-yr 9x5, next business day	1-yr 9x5, next business day	1-yr 9x5, next business day	1-yr 9x5, next business day	1-yr 24x7, same day	1-yr 24x7, same day
IBM i level & tier	6.1.1, 7.1 Small – P05	6.1.1, 7.1 Small – P10	6.1.1, 7.1 Small – P10	6.1.1, 7.1 Small – P10	6.1.1, 7.1 Small – P10	6.1.1, 7.1 Small P05 (4-core) P10 (6- or 8-core)	6.1.1, 7.1 Small P05 (4-core) P10 (6- or 8-core)	6.1.1, 7.1 Small – P20	6.1.1, 7.1 Small – P20	6.1.1, 7.1 Small – P20	N/A	6.1.1, 7.1 Medium – P30	6.1.1, 7.1 Large – P50	6.1.1, 7.1 Large – P50
AIX level & group	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Small	5.3, 6.1, 7.1 Medium	5.3, 6.1, 7.1 Large	5.3, 6.1, 7.1 Large
Linux Support	SLES 10 SP3 SLES 11 SP1 RHEL 5.5, 6.0	SLES 10 SP3 SLES 11 SP1 RHEL 5.5, 6.0	SLES 10 SP3 SLES 11 SP1 RHEL 5.5, 6.0	SLES 10 SP4 SLES 11 SP1 RHEL 5.6, 6.0	SLES 10 SP4 SLES 11 SP1 RHEL 5.5, 6.0	SLES 10 SP4 SLES 11 SP1 RHEL 5.7, 6.1	SLES 10 SP4 SLES 11 SP1 RHEL 5.7, 6.1	SLES 10 SP4 SLES 11 SP1 RHEL 5.7, 6.1	SLES 10 SP4 SLES 11 SP1 RHEL 5.7, 6.1	SLES 10 SP3 SLES 11 RHEL 5.5, 6.1	SLES 10 SP3 SLES 11 RHEL 5.5, 6.0	SLES 10 SP3 SLES 11 RHEL 5.5, 6.0	SLES 10 SP3 SLES 11 RHEL 5.5, 6.0	SLES 10 SP3 SLES 11 SP1 RHEL 5.5, 6.0
PowerVM® Express	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	N/A	N/A	N/A	N/A
PowerVM Standard	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	N/A	Optional	Optional	Optional
PowerVM Enterprise	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	N/A	Optional	Optional	Optional
Systems Director Editions (w/VMControl)	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Machine type – model	8406-70Y	8406-71Y	8406-71Y	7891-73X	7891-74X	8231-E1C	8202-E4C	8231-E2C	8205-E6C	8233-E8B	8236-E8C	9117-MMC	9179-MHC	9119-FHB

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1 Not included in the 5 PCI1 Gen2 system slots is an additional dedicated PCIe LAN adapter slot.
2 Each Power 780 3.92 GHz processor card has 2 sockets, each has 8 POWER7 processor cores. In TurboCore mode at 4.14 GHz, half the cores available per socket.
3 Each Power 795 4.0 GHz processor book has 4 sockets, each has 8 POWER7 processor cores. In TurboCore mode at 4.25 GHz, half the cores available per socket.
4 CPW value is for a 24-core 3.7 GHz system, use IBM Workload Estimator for larger systems.

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Power Systems feature deep integration and optimization across operating systems, databases and middleware for simpler, and more flexible, service delivery.

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