

	IBM Power S914	IBM Power S924	IBM Power S922
Machine type	9009-41A	9009-42A	9009-22A
System Packaging	19" rack drawer (2U)	19" rack drawer (2U)	19" rack drawer (2U)
Microprocessor type	64-bit POWER9	64-bit POWER9	64-bit POWER9
# of processor sockets per server	1	1 upgradable or 2	1 upgradable or 2
GHz (cores/socket) # of cores	2.3 to 3.8 GHz (1) 4 (1) 6 2.8 to 3.8 GHz (1) 8	3.8 to 4.0 GHz (2) 8 3.5 to 3.9 GHz (2) 10 3.4 to 3.9 GHz (2) 12 2.9 to 3.8 GHz (2) 10.2	2.8 to 3.8 GHz (2) 4 3.4 to 3.9 GHz (2) 8 2.9 to 3.8 GHz (2) 10
EnergyScale	Y	Y	Y
Level 2 (L2) cache per core	512 KB	512 KB	512 KB
Level 3 (L3) cache per core	10 MB	10 MB	10 MB
Level 4 (L4) cache per core	Up to 128 MB	Up to 128 MB	Up to 128 MB
System Memory (minimum - maximum)	32 GB – 1024 GB	32 GB - 4096 GB	32 GB - 4096 GB
Chipkill memory	Y	Y	Y
Service processor	Y	Y	Y
Hot-swappable disks/ SSD	Y	Y	Y
Dynamic Processor Deallocation	Y	Y	Y
Processor Instruction Retry	Y	Y	Y
Alternate Processor Recovery	Y	Y	Y
Hot-plug concurrent maintenance PCIe slots	Y	Y	Y
Redundant hot-plug power	Y	Y	Y
Redundant hot-plug cooling	Y	Y	Y
Dual VIOS	Optional	Optional	Optional
PowerVM Linux Edition	N/A	N/A	N/A
PowerVM Enterprise Edition	Y	Y	Y
Max logical partitions/micro-partitions	480	480	480
System unit PCIe Gen3 low profile slots	7 PCIe x8 1 PCIe x16	8 PCIe x8 3 PCIe x16	6 PCIe x8 3 PCIe x16
Max PCIe Gen3 I/O Drawer	1	1	1
Max PCIe Gen3 slots: system unit + PCIe I/O drawers	30 (6 in system unit + 24 in I/O drawer)	33 (9 in system unit + 24 in I/O drawer)	31 (7 in system unit + 24 in I/O drawer)
System unit disk/SSD bays with standard or split back-plane	12 SFF-3 or 6+6 SFF-3	12 SFF-3 or 6+6 SFF-3	8 SFF-3
System unit disk/SSD bays with expanded function back- POWER9 SCM sockets (Number of SCMs)	18 SFF-3 plus optional EXP24SX attachment for 1	18 SFF-3 plus optional EXP24SX attachment 1 or 2	1 or 2
Max memory DIMM card slots	16	32 (with 2 SCM)	32 (with 2 SCM)
Maximum TB storage in system unit	32.4 TB (with 18x 1.8 TB disks)	32.4 TB (with 18x 1.8 TB disks)	14.4 TB (with 8x 1.8 TB disks)
Maximum EXP24SX/EXP24S/ EXP12SX storage enclo- sures	28	28	28
Maximum in EXP24SX/EXP24S	672 drives 1209 TB w/ 1.8 TB disk	672 drives 1209 TB w/ 1.8 TB disk	672 drives 1209 TB w/ 1.8 TB disk
Maximum in EXP12SX	N/A	336 drives 2593 TB w/ 7.72 TB disk	336 drives 2593 TB w/ 7.72 TB disk
IBM i CPW GHz (cores/socket): perf (# cores)	2.3 – 3.8 GHz (4) : 52500 2.3 – 3.8 GHz (6) : 78500 2.3 – 3.8 GHz (8) : 122500	3.8 – 4.0 GHz (8) : 145500 3.8 – 4.0 GHz (16): 268500 3.5 – 3.9 GHz (10): 174500 3.5 – 3.9 GHz (20): 318000 3.4 – 3.9 GHz (24): 370700	3.4 – 3.9 GHz (4) : 68000 2.9 – 3.8 GHz (4) : 60000

POWER9 SCM sockets (Number of SCMs)	1	1 or 2	1 or 2
Max memory DIMM card slots	16	32 (with 2 SCM)	32 (with 2 SCM)
Max sustained memory bandwidth to L4 cache from SCM	Up to 128 MB	Up to 128 MB	Up to 128 MB
Max peak memory bandwidth to DIMMs from L4 cache	210 GB/sec	410 GB/sec	410 GB/sec
Integrated ports			
System/serial (RJ45)	1	1	1
USB-2 ports g	2	2	2
USB-3 ports	3 (1 front & 2 rear)	3 (1 front & 2 rear)	4 (2 front & 2 rear)
HMC ports (RJ45)	2	2	2
Ethernet adapter ports	4 x1 Gb or 1 x10 Gb	4 x1 Gb or 1 x10 Gb	4 x1 Gb or 1 x10 Gb
SAS bays in system unit			
2.5-inch (disk/SSD)	18 or 12 SFF-3	18 or 12 SFF-3	8 SFF-3
1.8-inch (SSD)	0	0	0
Media bays			
DVD-RAM slimline	1	1	1
HH for tape	N/A	N/A	N/A
Integrated SAS storage controllers for disk/SSD/ DVD	Y	Y	Y
Base backplane	1 (zero write cache)	1 (zero write cache)	1 (zero write cache)
Split backplane	2 (zero write cache)	2 (zero write cache)	2 (zero write cache)
Expanded function backplane	Dual IOA (7.2 GB write cache)	Dual IOA (7.2 GB write cache)	Dual IOA (7.2 GB write cache)
Easy Tier function	N/A	N/A	Y with expanded function backplane
Optional EXP24SX or EXP12SX ports	N/A	N/A	Y with expanded function backplane
PCIe Gen4 adapter slots	2	5	5
PCIe x8	1	2	2
PCIe x16	1	3	3
PCIe Gen3 adapter slots	6	6	4
PCIe x8	4	6	4
PCIe x16	2	0	0
Max PCIe bus speed (GHz)	8.0 (Gen3)	8.0 (Gen3)	8.0 (Gen3)
Max I/O bandwidth	96 GB/sec	96 GB/sec	96 GB/sec
Service indicator LEDs	Y	Y	Y