

Oracle Exadata Database Machine X7



Technical Specifications

- Up to 912 CPU cores and 28.5 TB memory per rack for database processing
- Up to 360 CPU cores per rack dedicated to SQL processing in storage
- From 2 to 19 database servers per rack
- From 3 to 18 storage servers per rack
- Up to 920 TB of flash capacity (raw) per rack
- Up to 2.1 PB of disk capacity (raw) per rack
- Hybrid Columnar Compression often delivers 10X-15X compression ratios
- 40 Gb/second (QDR) InfiniBand Network
- Complete redundancy for high availability



Fastest Intel Xeon processors



Latest PCIe NVME flash technology



25 Gbps Ethernet for client connectivity

Features



Unmatched Performance

Exadata X7 delivers 20 percent faster throughput than previous models, which means you can pull data from a 350 GB database in under one second and under 3 seconds for a 1 TB database.



OLTP Read/Write Performance

The full-rack Exadata X7 can do 4.8 million reads and 4.3 million writes per second. Featuring an Intel Skylake processor with 24 cores, Exadata X7 is 16x faster for throughput and 3x higher IOPS for OLTP than comparable vendors.



Increased Storage Capacity

The only system in the market today with 10 TB disk drive, Exadata X7 delivers a 100 percent increase in flash-storage capacity compared to previous models. With X7, each Exadata EP storage server has over 50 TB of raw flash capacity, with at least 3 storage servers in each Exadata rack.



50 Percent More Memory

Exadata X7 accelerates heavy workloads like in-memory databases—with the option to order additional memory installed in factory.



Enhanced Connectivity

Now supports client systems connecting to over 25 Gigabit Ethernet (GbE).