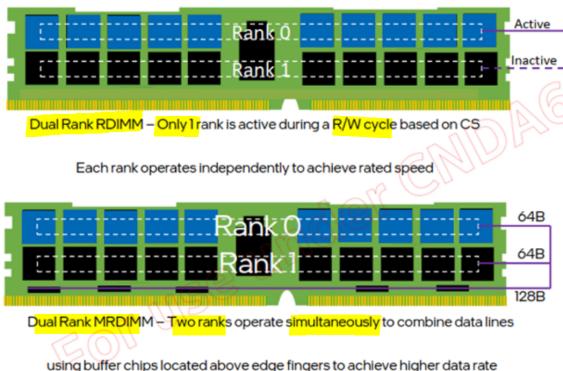
## **Supported DIMMs**

New memory modules supported with Intel Xeon 6 processors

## MRDIMM overview

Xeon 6 supports MRDIMMs. MRDIMMs (Multiplexed Rank Dual Inline Memory Modules) are an enhanced DDR5 DIMM technology that deliver 30% greater memory bandwidth than RDIMMs with an expected data transfer rate of up to 8800 MT/s. The MRDIMM is the fastest DDR5 DIMM currently available, and they are supported by Intel Xeon P-cores processors.





## **Xeon 6 memory config**

- Xeon 6900 P-cores processors support 1DPC (DIMM per channel) population only
- 6500 / 6700-series supports both 1DPC and 2DPC population
  - 2DPC population is only supported with RDIMMs, not with MRDIMMs
- MRDIMMs are supported only on P-cores processors with 1DPC population

DIMM rating	Operating speed (MT/s)	Memory config
Xeon 6900 P-cores		
DDR5-6400 rated RDIMMs only	6400, 6000, 5600, 5200, 4800	1DPC / 1SPC
MR-8800 only	8800, 8000, 7200	1DPC / 1SPC
Xeon 6500 / 6700 P-cores		
DDR5-6400 rated RDIMMs only	<mark>6400,</mark> 6000, 5600, 5200, 4800	1 DPC / 1 SPC
	<mark>5200</mark> , 4800	2 DPC / 2 SPC
MR-8800 only	<mark>520</mark> 0, 4800	1 DPC / 1 SPC
Xeon 6700 E-cores		
DDR5-6400 rated RDIMMs only	6400, 6000, 5600, 5200, 4800	1 DPC / 2 SPC
	<mark>520</mark> 0, 4800	2 DPC / 2 SPC
Xeon 6900 E-cores		
DDR5-6400 rated RDIMMs only	<mark>6400,</mark> 6000, 5600, 5200, 4800	1 DPC / 1 SPC

- DPC = DIMM per channel
- SPC = slot per channel

## **CXL** technology

ThinkSystem V4 servers support Compute Express Link (CXL) 2.0. CXL is an industry-supported cache-coherent interconnect for processors, memory expansion, and accelerators. For more information about CXL technology, refer to the following documentation:

- CXL organization: About CXL: <a href="https://computeexpresslink.org/about-cxl/">https://computeexpresslink.org/about-cxl/</a>
- Breaking the memory wall with compute express link (CXL): <a href="https://community.intel.com/t5/Blogs/Tech-Innovation/Data-Center/Breaking-the-Memory-Wall-with-Compute-Express-Link-CXL/post/1594848">https://community.intel.com/t5/Blogs/Tech-Innovation/Data-Center/Breaking-the-Memory-Wall-with-Compute-Express-Link-CXL/post/1594848</a>



