

# DDR5

## The Next-generation Standard

DDR5 is the new standard of double data rate (DDR) DRAM that improves on DDR4 in both speed and power. SK hynix presents the world's first DDR5 in a server solution that will enable the era of AI and big data.

See the Official Press Release

<https://news.skhynix.com/sk-hynix-launches-worlds-first-ddr5-dram/>



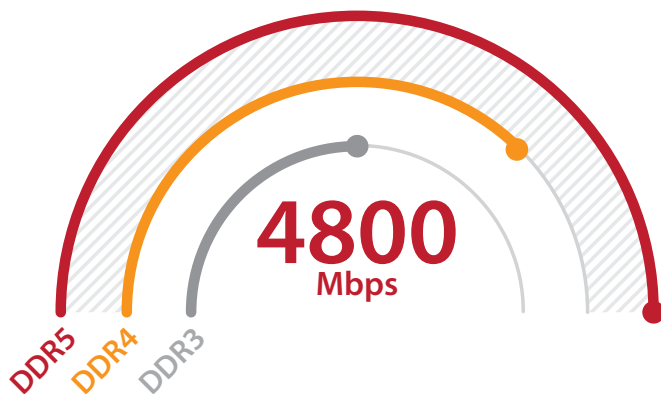
### Key Benefits

#### Dynamic Scalability

2x memory access availability over DDR4 with 32 banks in 8 bank groups, both twice that of DDR4



16Gb DDR5 / 32 Banks (x4 / x8)

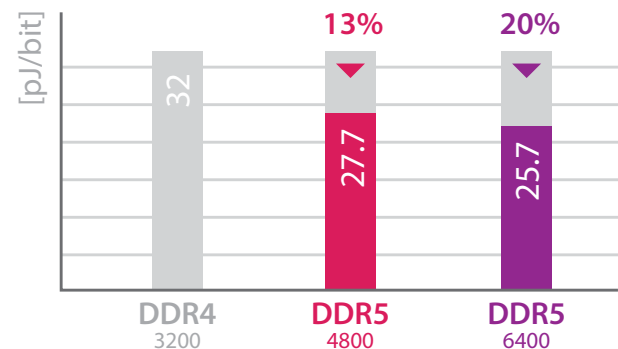


#### High Speed & Bandwidth

4,800Mbps or higher data transfer speeds, 38% faster over DDR4

#### High Power Efficiency

Operating voltage down at 1.1V, 20% less than DDR4



Power Savings Per Bit Transition

## Product Details



	DDR4	DDR5
Die Density	8Gb, 16Gb	16Gb~
Speed	1600~3200Mbps	3200~8400Mbps
Number of Bank	16banks	32banks
Bank refresh	All-bank refresh	*Same bank refresh

\*Same bank refresh: Allowing the system to access other banks when certain banks are under refresh function.

## Use Cases

