



Next-Gen Memory Module Offers Increased Bandwidth and Speed

# ADATA DDR5 DRAM Module

The future of DRAM is here in the form of the ADATA DDR5 DRAM module. Compared to its predecessors, this module provides a significant speed boost, higher capacities, reduced power consumption and increased bandwidth per CPU core. ADATA will partner with PC manufacturers to launch the ADATA DDR5 memory modules to meet the performance needs of consumers and enterprises alike.



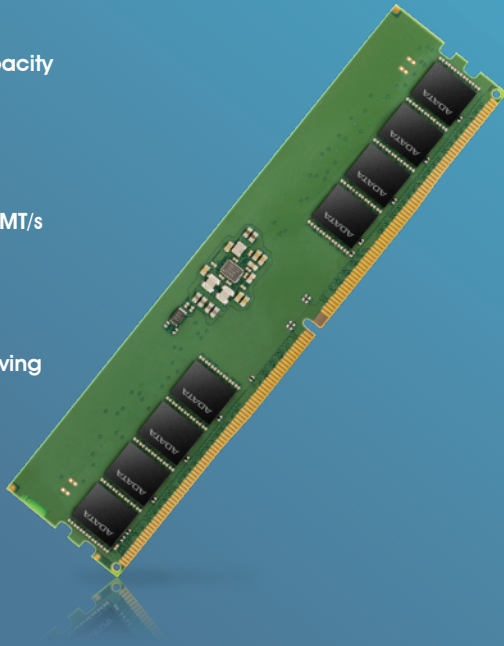
2X capacity



Up to  
8400MT/s



1.1V  
Power Saving



Item	DDR4	DDR5	
Data Rates	1600 ~ 3200 MT/s	3200 ~ 8400 MT/s	➔ 163% Increase from DDR4
Densities	2~16 Gb	8~64 Gb	➔ 4X from DDR4
Operation Volt.(VDD)	1.2V	1.1V	➔ Low power consumption
Burst Length	8	16	➔ 2X from DDR4
Bank Groups	4	8	➔ 2X from DDR4
Banks	16	32	➔ 2X from DDR4
Prefetch	8n	16n	➔ 2X from DDR4
On-die ECC	X	V	➔ Improve reliability
Refresh	Standard	Enhanced refresh mode	➔ Saving power & enhanced performance
PMIC Chip	X	V	➔ Better power management