ADATA Premier memory module 16 GB 1 x 16 GB DDR5 288-pin DIMM

Model: AD5U560016G-S

Manufacturer: ADATA

EAN: 4711085939234

Product Code: 1178072

R6,579

Higher Frequencies

The DDR5-5600 U-DIMM delivers blazing frequencies of up to 5600 MHz, a major leap from the max. frequency of DDR4 modules (3200 MHz).

More Energy-Efficient

This next-gen memory module operates on just 1.1V, making it 8% more power-efficient than DDR4. What's more, it features a built-in Power Management IC (PMIC) to enhanced power supply stability.

Capacity Doubled

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This memory module's architecture allows for more memory bank groups and banks. With the same area, more bank groups can be packed into the module, doubling what was possible with DDR4, giving you higher capacities.

Improved Stability

With error correcting code (ECC) this module can correct errors automatically in real-time. In addition to greatly reducing the burden of CPU calculations, it also provides increased stability and reliability for enterprise-class computers.

QuikTips: DDR5 vs DDR4 - Appearance

DDR5 U-DIMM modules have the same dimensions and pin count as DDR4 modules. The most obvious difference is the position of the fool-proof notch. Also, DDR5 integrates I/O resistors with CMD/ADD resistors. Also, the appearance of DDR5 modules are cleaner than DDR4. In addition, you can see a PMIC in the center.

QuikTips: DDR5 vs DDR4 - Chip Architecture

DDR5 modules provide two times more capacity than DDR4 by packing in more banks and bank groups. In addition, Burst Length, Prefetch are also doubled, increasing the number of data writes and the amount of data taken upfront. And to ensure data integrity, they feature error correcting code (ECC) technology.

QuikTips: DDR5 vs DDR4 - Performance

The biggest change is that bandwidth and frequency are significantly higher. The ADATA DDR5 memory modules deliver frequencies of up to 4800MHz and feature bandwidth of 38.4GB/s, which is 50% higher than the DDR4-3200. The maximum frequency is increased 1.63 times compared to DDR4.

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