

Samsung begins mass production of 'most advanced' 12nm DDR5 memory chips

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Samsung Electronics has just announced that the company has started mass production lines for the new generation DDR5 DRAM memory chip line. This is the DRAM line that Samsung confidently claims is "the most advanced in the industry", developed based on the 12nm technology that the company announced at the end of 2022. The main highlight of the new chips is the notable improvements. Note about power consumption and wafer yield.

Samsung says the new 12nm class DRAM consumes 23% less power than the previous generation. This offers global IT companies an "ideal solution" to reduce energy consumption and carbon emissions in their servers and data centers. The Korean tech giant explains that this improvement is thanks to a new material with a high dielectric constant, which increases the cell's capacitance:

Using differentiated process technology, Samsung's industry-leading 12nm class DDR5 DRAM delivers outstanding performance and power efficiency. This achievement reflects our continued commitment to leading the DRAM market, not only with high-performance and high-capacity products that meet large-scale computing market needs, but also by commercializing commercialize next generation solutions that support higher productivity.



Samsung's latest 16GB DDR5 DRAM memory chip operates at a maximum speed of 7.2Gbps, equivalent to processing two 30GB UHD movies in just one second. Last December, the Korean manufacturer also completed the compatibility evaluation process with AMD. Now, the company will step up collaborations with other names in the industry to expand its support for a growing list of next-generation computing applications and services, such as AI, that require memory chips. fastest and most effective.

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