

# Loongson 3b6600 Specifications

**Processor architecture:** LA864 architecture

**Number of cores:** Eight cores (four large and four small configurations are possible)

**Main frequency:** The base frequency is expected to be 2.5GHz to 3.0GHz, supporting single-core turbo frequency technology

**Graphics processing:** Integrated LG200 GPGPU graphics computing core

**Memory support:** Supports DDR5 memory

**Bus technology:** Supports PCIe 4.0 bus

**Output standard:** Supports HDMI 2.1 output

## Loongson 3b6600 specification data sheet

Projects	Details
Processor model	Loongson 3B6600
Processor architecture	LA864 architecture
Number of cores	Eight cores (four large and four small)
Main frequency	2.5GHz (base), supports single-core turbo frequency technology, and is expected to increase to 3.0GHz
Performance comparison	Equivalent to Intel's mid-to-high-end Core 12th to 13th generation processors, comparable to Core i5 and i7 series
Same frequency performance improvement	About 30% improvement compared to the previous generation product Loongson 3A6000
Graphics processing	Integrated LG200 GPGPU graphics computing core
Memory support	Support DDR5 memory
Bus technology	Support PCIe 4.0 bus
Other features	Support HDMI 2.1 output

Loongson 3B6600 is a Chinese-made processor. As the next-generation desktop processor developed by Loongson Zhongke, Loongson 3B6600 not only reaches the world's leading level in single-core performance, but also shows strong strength in multi-core performance.

It adopts the new LA864 architecture and integrates the new LG200 GPGPU graphics computing core, supports DDR5 memory, PCIe 4.0 bus and HDMI 2.1 output. This series of configurations makes Loongson 3B6600 perform well in computing power and multi-tasking, especially in data-intensive applications and graphics processing.

In addition, the successful development of Loongson 3B6600 also marks a major leap in domestic chip technology, enhancing China's competitiveness in the global semiconductor industry.

In the future, with the maturity and improvement of the domestic integrated circuit industry chain, Loongson 3B6600 may lead domestic CPUs to a broader market prospect.

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