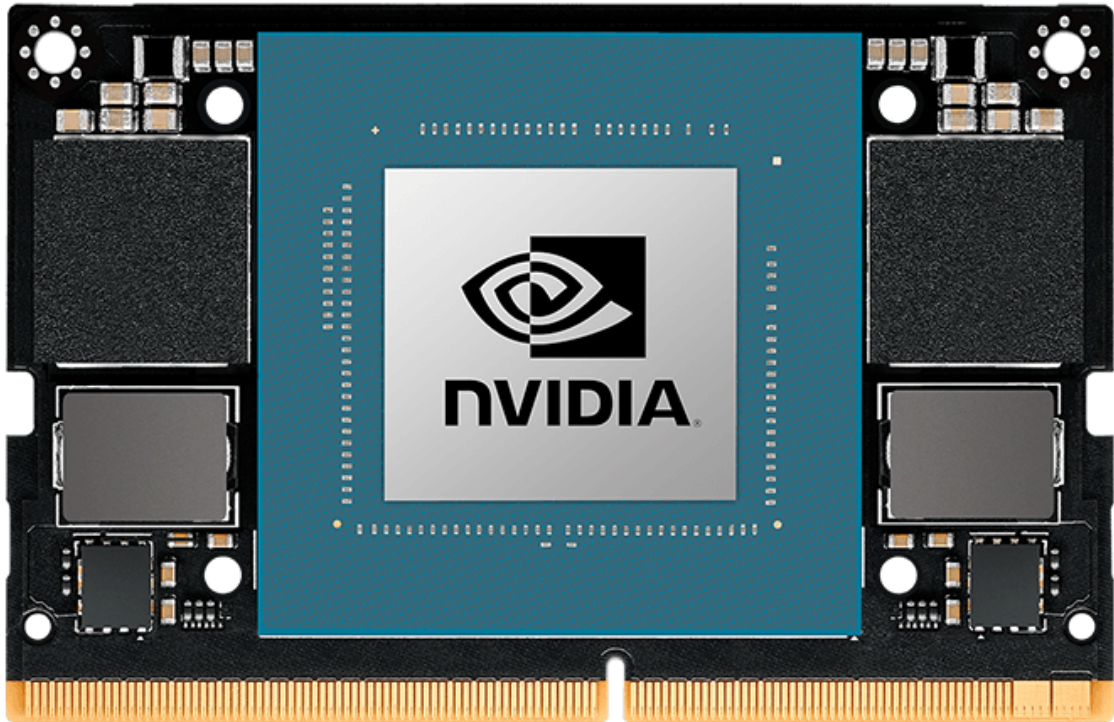


# 1.Introduction to Jetson Orin NX

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Jetson Orin NX is a new member of the Jetson series, with the core board shown in the following figure



## performance

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NVIDIA Jetson Orin NX has NVIDIA Ampere architecture GPU and Arm® Cortex®-A78AE CPU, as well as next-generation deep learning and visual accelerator. High speed IO, 102GB/s memory bandwidth and 12GB DRAM can feed multiple concurrent AI application pipelines.

## Size (for the core board, without the base plate)

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Size only 70mm x 45mm, Jetson Orin™ The performance of NX is NVIDIA Jetson Xavier™ 5 times the NX. Small size, strong performance, and high energy efficiency can bring excellent performance to new generation products such as drones and handheld devices.

## power

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low-power consumption

Experience the higher performance of small robots and autonomous machines in a compact, energy-efficient and efficient system. The power consumption of compact modules is only 10 watts, with an upper limit of 25 watts. Gain a deeper understanding of the disruptive size, performance, and power consumption of the Jetson Orin NX, as well as the NVIDIA JetPack™ The SDK, NVIDIA AI software stack, and ecosystem of services and products help your product quickly reach the market.

## Important parameters

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jetson orin nx	8GB	16GB
Alperformance	70Tops	100tops
GPU	1024 core NVIDIA Ampere architecture GPU with 32 Tensor Cores	Same as 8GB
GPU maximum frequency	765 MHz	918 MHz
CPU	6 nuclear weapons ® Cortex ®-A78AE v8.2 64 DPI CPU 1.5MB L2 + 4MB L3	8 nuclear weapons ® Cortex ®-A78AE v8.2 64 MB CPU 2MB L2 + 4MB L3
CPU Maximum frequency	2 GHz	Same as 8GB
Memory	8GB 128位 LPDDR5 102.4GB/s	16GB 128位 LPDDR5 102.4GB/s
storage	Supports external NVMe	Supports external NVMe