



Desktop Processor Intel Core Ultra 5 U5- 245K (Arrow Lake), 14 Cores, up to 5.2 GHz, LGA1851, 125W, Boxed



Modelis: BX80768245K

Gamintojas: INTEL

EAN: 5032037282086

Prekės kodas: 105251

229.98€

Intel Core Ultra 5 U5-245K: High-Performance Desktop Processor

The Intel Core Ultra 5 U5-245K processor, built on the advanced Arrow Lake architecture, is engineered for modern desktop computing, delivering a robust balance of speed, efficiency, and

Pateikta prekės informacija yra orientacinio pobūdžio. Techninės savybės, nuotraukos, aprašymai ir kaina gali keistis be išankstinio perspėjimo. Gamintojas ir pardavėjas neatsako už galimus duomenų neatitikimus ar tipografines klaidas. Prieš įsigyjant rekomenduojame pasitikrinti aktualią informaciją.

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integrated intelligence. This CPU is designed for enthusiasts and power users who require reliable performance for demanding applications, gaming, and advanced multitasking.

Revolutionary Hybrid Architecture

Experience seamless performance thanks to Intel's innovative hybrid design featuring 14 total cores and 14 threads. This configuration includes 6 high-speed Performance-cores (P-cores) and 8 efficient Efficient-cores (E-cores). The P-cores operate at a substantial base frequency of 4.2 GHz, dynamically boosting up to an impressive 5.2 GHz for demanding workloads. The E-cores handle background tasks and less intensive processes efficiently, running up to 4.6 GHz, ensuring optimal power management and system responsiveness.

Key Specifications and Memory Support

- **Total Cores:** 14 (6 P-cores + 8 E-cores)
- **Max Turbo Frequency:** Up to 5.2 GHz
- **P-Core Base Frequency:** 4.2 GHz
- **Cache:** 24 MB Intel Smart Cache for rapid data access
- **Socket Type:** LGA1851
- **Power (PBP):** 125 Watts
- **Memory Technology:** Supports up to 192 GB of DDR5-6400 MT/s memory across two channels, providing high bandwidth (up to 76.8 GB/s) crucial for memory-intensive applications.

Integrated Graphics and AI Acceleration

The U5-245K features capable integrated Intel Graphics, dynamically boosting up to 1.9 GHz. This provides a balanced solution for everyday graphical tasks and multimedia content creation without requiring a dedicated graphics card. Furthermore, this processor accelerates next-generation applications with **Intel AI Boost**, achieving a peak performance of 13 TOPS (trillions of operations per second). This AI engine enhances tasks like natural language processing and image recognition, supported by frameworks such as OpenVINO™ and DirectML.

Optimized Efficiency and Advanced Technologies

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Balancing its substantial Processor Base Power (125W), the U5-245K maintains energy efficiency while delivering top-tier speed. It utilizes advanced technologies like Intel Deep Learning Boost (Intel DL Boost) to further optimize AI workloads, ensuring faster, smarter processing across various platforms.

Intel is globally recognized as a leader in semiconductor technology, continuously driving innovation in computing hardware that powers billions of devices worldwide, from servers to high-performance desktop systems.

Order the high-speed Intel Core Ultra 5 U5-245K processor today from ++SHOP++ and take advantage of our competitive pricing and fast delivery for your next PC build.

Intel Core Ultra 5 245K

Processor 245K (24M Cache, up to 5.20 GHz) FCLGA18W, Boxed

Introducing the Intel Core Ultra 5 Processor 245K, a high-performance solution engineered to meet the demands of modern computing. With its advanced architecture and robust features, this processor is ideal for users seeking reliable performance for everyday tasks.

High-Performance Architecture

The Intel Core Ultra 5 Processor 245K features a hybrid architecture with 14 cores and 14 threads, combining 6 Performance-cores and 8 Efficient-cores. This design ensures efficient multitasking and optimal performance across a wide range of applications. The Performance-cores operate at a base frequency of 4.2 GHz, with the capability to boost up to 5.2 GHz, providing the power needed for demanding tasks. The Efficient-cores run at a base frequency of 3.6 GHz, with a maximum turbo frequency of 4.6 GHz, handling background processes and less intensive workloads efficiently.

Generous Cache and Memory Support

Equipped with a 24 MB Intel Smart Cache, the 245K ensures quick access to frequently used data, enhancing overall system responsiveness. The processor supports up to 192 GB of DDR5-6400 MT/s

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memory across two channels, offering high memory bandwidth of up to 76.8 GB/s. This capacity allows for smooth operation of memory-intensive applications and multitasking scenarios.

Integrated Graphics and AI Capabilities

The 245K comes equipped with Intel Graphics, operating at a base frequency of 300 MHz and capable of dynamic acceleration up to 1.9 GHz. This integrated GPU supports multiple displays and is suitable for everyday graphical tasks, providing a balanced solution for users who do not require a discrete graphics card. Additionally, the processor features Intel AI Boost, delivering AI acceleration with a peak performance of 13 TOPS (trillions of operations per second), enhancing tasks such as image recognition and natural language processing.

Energy Efficiency and Thermal Management

With a processor base power of 125W and a maximum turbo power of 159W, the 245K balances performance with energy efficiency. This design ensures that the processor delivers high performance while managing power consumption effectively, contributing to a cooler and quieter system.

Advanced Technologies

The Intel Core Ultra 5 Processor 245K incorporates several advanced technologies to enhance user experience. Intel Deep Learning Boost (Intel DL Boost) accelerates AI workloads, providing faster and more efficient processing. The processor also supports various AI software frameworks, including OpenVINO™, WindowsML, DirectML, ONNX RT, and WebNN, enabling developers to leverage the processor's AI capabilities across different platforms.

The Intel Core Ultra 5 Processor 245K offers a dependable and cost-effective solution for everyday computing tasks. Its combination of solid performance, generous cache, advanced technologies, and integrated graphics makes it a versatile choice for users seeking reliability and efficiency in their computing experience. Whether you're working on documents, browsing the web, or enjoying multimedia content, the 245K delivers the performance you require.

Vendor Homepage: www.intel.com/content/www/us/en/products/sku/241067/intel-core-ultra-5-processor-245k-24m-cache-up-to-5-20-ghz/specifications.html | CPU application: Desktop | CPU Family name: Intel Core Ultra | Model number: U5-245K | Core name: Arrow Lake | Clock speed: 4200

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| Number of cores: 14 | Cache: 24MB | Socket: LGA1851 | Wattage: 125 | Turbo frequency: 5200 |
Memory type: DDR5 | Frequency speed: 6400 | Packing type: BOX | Units per Shipping Box: 1 | Unit
Calculated Volume: 0.0005324 | Product Net Weight: 0.03 | Unit Calculated Weight: 0.09

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