



# Processor Intel Core Ultra 5 245KF Arrow Lake (14 Cores, 5.2 GHz Turbo, 24MB Cache, LGA1851, 125W) BOX



Modelis: BX80768245KF S RQCY

Gamintojas: INTEL

EAN: 5032037282116

Prekės kodas: 13705

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## 207.99€

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## Intel Core Ultra 5 245KF Desktop Processor - Power and Efficiency for Modern Computing

Introducing the Intel Core Ultra 5 245KF processor, built on the advanced Arrow Lake architecture. Engineered for high performance and efficiency, this desktop CPU is the ideal foundation for

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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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enthusiasts and users seeking reliable, high-speed computing without integrated graphics, allowing dedicated pairing with a powerful discrete GPU.

## Revolutionary Hybrid Architecture

The Core Ultra 5 245KF features an innovative hybrid design utilizing 14 cores, combining 6 Performance-cores (P-cores) and 8 Efficient-cores (E-cores). This configuration ensures smooth, balanced performance across all workloads, from demanding applications to efficient background tasks. P-cores operate at a robust base frequency of 4.2 GHz and can boost up to an impressive 5.2 GHz, providing serious power when you need it most. The E-cores handle general tasks efficiently, boosting up to 4.6 GHz.

## Key Performance Specifications:

- **Model:** Intel Core Ultra 5 245KF (Arrow Lake)
- **Core Count:** 14 Cores
- **Max Turbo Frequency:** Up to 5.2 GHz
- **Processor Base Power (PBP):** 125 Watts (Maximum Turbo Power 159W)
- **Cache:** 24 MB Intel Smart Cache for enhanced system responsiveness.
- **Socket Compatibility:** Designed for the LGA1851 platform.

## Optimized Memory and AI Acceleration

Experience ultra-fast data access with support for high-bandwidth DDR5 memory up to 6400 MT/s. The 245KF supports a massive 192 GB total memory capacity across two channels, making it excellent for intensive multitasking and professional applications, offering a memory bandwidth of up to 76.8 GB/s.

Furthermore, this processor is equipped with Intel AI Boost, delivering dedicated AI acceleration with a peak performance of 13 TOPS (trillions of operations per second). This technology enhances demanding AI workloads such as image recognition and natural language tasks, leveraging supporting frameworks including OpenVINO™ and DirectML.

## Graphics and Thermal Management

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As a 'KF' series chip, this model does not include integrated graphics, making it ideal for custom builds where users plan to maximize graphical performance using a powerful discrete graphics card. Despite its powerful capabilities, the 245KF maintains a balanced energy profile with a Processor Base Power of 125W, contributing to effective thermal management and a stable operating system.

**Intel** is a global leader in silicon innovation, constantly pushing the boundaries of technology to create processors that power the world's most critical computing infrastructure, from data centers to desktop PCs.

Order your Intel Core Ultra 5 245KF today from ++SHOP++ and build a high-performance system ready for the future of computing.

## Intel Core Ultra 5 245KF

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

Introducing the Intel Core Ultra 5 Processor 245KF, 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 245KF 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 245KF 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 245KF does not include integrated graphics, making it an excellent choice for users who plan to pair the processor with a discrete graphics card for enhanced graphical performance. 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 245KF 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 245KF 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.

### Conclusion

The Intel Core Ultra 5 Processor 245KF offers a dependable and cost-effective solution for everyday computing tasks. Its combination of solid performance, generous cache, advanced technologies, and support for discrete 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 245KF delivers the performance you require.

Vendor Homepage: [www.intel.com/content/www/us/en/products/sku/241066/intel-core-ultra-5-processor-245kf-24m-cache-up-to-5-20-ghz/specifications.html](http://www.intel.com/content/www/us/en/products/sku/241066/intel-core-ultra-5-processor-245kf-24m-cache-up-to-5-20-ghz/specifications.html) | CPU application: Desktop | CPU Family name: Intel Core Ultra | Model number: U5-245KF | Core name: Arrow Lake | Clock speed: 4200 | Number of cores: 14 | Cache: 24MB | Socket: LGA1851 | Wattage: 125 | Turbo frequency:

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5200 | Memory type: DDR5 | Frequency speed: 6400 | Packing type: BOX | Units per Shipping Box: 5  
| Unit Calculated Volume: 0.00072 | Product Net Weight: 0.03 | Unit Calculated Weight: 0.106

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