

BX80768265

Intel Core Ultra 7 265 2.4GHz up to 5.3GHz LGA1851 20-core Processor

Product Overview

Intel Core Ultra 7 265 LGA1851 2.4GHz up to 5.3GHz 20-core Processor, Intel Core Ultra Processor (Series 2), Code name Arrow Lake, 8 Performance-cores, 12 Efficient-cores, 30 MB Intel Smart Cache, 36 MB total L2 Cache, 65 W Processor base Power, 182 W Maximum Turbo Power, Intel Graphics, Intel AI boost NPU, 13 NPU Peak TOPS (Int8), No Heatsink and fan



Specifications

About this product

The Intel Core Ultra 7 265 20-core processor with LGA1851 socket delivers high-end desktop performance with up to 5.3GHz boost clock, built-in AI acceleration, and DDR5 memory support for gaming, creative work, and AI workloads. Buy now from our site for powerful computing performance in South Africa.

Overview Summary

Intel Core Ultra 7 265 5.3GHz 20-core Processor is a premium desktop CPU designed for demanding computing tasks, offering a total of 20 cores (8 performance cores and 12 efficient cores) and up to 5.3GHz maximum turbo frequency. The advanced architecture delivers excellent multitasking and processing speed with support for DDR5 memory and PCIe 5.0 interfaces for next generation system performance. Built-in Intel graphics and AI Boost NPU enhance graphics and AI workloads for modern users.

This processor is ideal for users building high performance PCs for gaming, content creation, data analysis, and intensive productivity applications. With robust cache, modern connectivity, and a platform ready for future upgrades, it brings responsive performance and future-ready features. Buy online today and upgrade your desktop experience with cutting-edge Intel technology.

Performance tier:High-end

Uses:Gaming, content creation, AI processing, multitasking, video editing

Description

The Intel Core Ultra 7 265 processor brings next generation desktop performance for users who demand responsiveness and power. Featuring 8 high performance cores and 12 efficient cores, this CPU handles intensive multi threaded workloads with ease and delivers up to 5.3GHz boost frequency for dynamic performance when required. The integrated Intel graphics and AI

Boost Neural Processing Unit (NPU) accelerate AI tasks, improving everyday workflows and creative applications. Built on the modern Arrow Lake architecture with support for fast DDR5 memory up to 6400MT/s and PCIe 5.0 connectivity, it provides a future proof platform for high performance builds.

This processor is perfect for gaming rigs, high productivity systems, and workstations where smooth responsiveness and powerful performance are essential. From rendering video content to executing complex data analysis, the Ultra 7 265 delivers reliable power and versatility for demanding desktop environments, making it a foundational component in modern computing setups.

Features

The key features of the Intel Core Ultra 7 265 20-core processor include:

- 20 core architecture: Combines performance and efficiency cores for balanced power and responsiveness.
- Up to 5.3GHz boost: High turbo clock speeds accelerate demanding computing tasks.
- DDR5 memory support: Enables high speed memory performance up to DDR5-6400.
- PCIe 5.0 connectivity: Provides next generation bandwidth for GPUs, storage, and expansion cards.
- AI Boost NPU: Enhances AI workloads for productivity and creative applications.
- Integrated graphics: Offers solid visual output without requiring a discrete GPU.

What's in the Box

- Intel Core Ultra 7 265 20-core processor
- Protective CPU case
- Installation guide
- Warranty information

Specifications

Essentials	
Product Collection	Intel Core Ultra Processors (Series 2)
Code Name	Products formerly Arrow Lake
Vertical Segment	Desktop
Processor Number	265
Overall Peak TOPS (Int8)	33
CPU Specifications	
Total Cores	20
# of Performance-cores	8
# of Efficient-cores	12
# of Low Power Efficient-cores	0
Total Threads	20
Max Turbo Frequency	5.3 GHz
Intel Turbo Boost Max Technology 3.0 Frequency	5.3 GHz
Performance-core Max Turbo Frequency	5.2 GHz
Efficient-core Max Turbo Frequency	4.6 GHz

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Product Specification Sheet

Performance-core Base Frequency	2.4 GHz
Efficient-core Base Frequency	1.8 GHz
Cache	30 MB Intel Smart Cache
Total L2 Cache	36 MB
Processor Base Power	65 W
Maximum Turbo Power	182 W
Intel Deep Learning Boost (Intel DL Boost) on CPU	Yes
AI Software Frameworks Supported by CPU	OpenVINO, WindowsML, DirectML, ONNX RT, WebNN
CPU Lithography	TSMC N3B
Supplemental Information	
Embedded Options Available	Yes
Use Conditions	PC/Client/Tablet, Workstation
Memory Specifications	
Max Memory Size (dependent on memory type)	256 GB
Memory Types	Up to DDR5 6400 MT/s
Max # of Memory Channels	2
ECC Memory Supported	Yes
GPU Specifications	
GPU Name	Intel Graphics
Graphics Base Frequency	300 MHz
Graphics Max Dynamic Frequency	1.95 GHz
GPU Peak TOPS (Int8)	8
Graphics Output	eDP1.4b, DP 2.1 UHBR20, HDMI 2.1 FRL
Xe-cores	4
Max Resolution (HDMI)	4096 x 2304 @ 60Hz (HDMI 2.1 TMDS)
	7680 x 4320 @ 60Hz (HDMI 2.1 FRL)
Max Resolution (DP)	7680 x 4320 @ 60Hz
Max Resolution (eDP - Integrated Flat Panel)	3840 x 2400 @ 120Hz
DirectX* Support	12
OpenGL* Support	4.5
OpenCL* Support	3
H.264 Hardware Encode/Decode	Yes
H.265 (HEVC) Hardware Encode/Decode	Yes

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Product Specification Sheet

AV1 Encode/Decode	Yes
Intel Quick Sync Video	Yes
# of Displays Supported	4
Device ID	0x7D67
Intel Deep Learning Boost (Intel DL Boost) on GPU	Yes
AI Software Frameworks Supported by GPU	OpenVINO, WindowsML, DirectML, ONNX RT, WebGPU
NPU Specifications	
NPU Name	Intel AI Boost
NPU Peak TOPS (Int8)	13
Sparsity Support	Yes
Windows Studio Effects Support	Yes
AI Software Frameworks Supported by NPU	OpenVINO, WindowsML, DirectML, ONNX RT, WebNN
Expansion Options	
Direct Media Interface (DMI) Revision	4
Max # of DMI Lanes	8
Intel Thunderbolt 4	Yes
Scalability	1S Only
PCI Express Revision	5.0 and 4.0
PCI Express Configurations	Up to 1x16+2x4, 2x8+2x4, 1x8+4x4
Max # of PCI Express Lanes	24
Package Specifications	
Sockets Supported	FCLGA1851
Thermal Solution Specification	PCG 2022C
Max Operating Temperature	105 degreesC
Package Size	45 mm x 37.5 mm
Advanced Technologies	
Intel Gaussian & Neural Accelerator	3.5
Intel Thread Director	Yes
Intel Speed Shift Technology	Yes
Intel Turbo Boost Max Technology 3.0	Yes
Intel Turbo Boost Technology	2
Intel Hyper-Threading Technology	No
Intel 64	Yes

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Product Specification Sheet

Instruction Set	64-bit
Instruction Set Extensions	Intel SSE4.1, Intel SSE4.2, Intel AVX2
Idle States	Yes
Enhanced Intel SpeedStep Technology	Yes
Thermal Monitoring Technologies	Yes
Intel Volume Management Device (VMD)	Yes
Security & Reliability	
Intel vPro Eligibility	Intel vPro Enterprise
Intel Threat Detection Technology (TDT)	Yes
Intel Active Management Technology (AMT)	Yes
Intel Standard Manageability (ISM)	Yes
Intel Remote Platform Erase (RPE)	Yes
Intel One-Click Recovery	Yes
Intel Secure Key	Yes
Intel Control-Flow Enforcement Technology	Yes
Intel Total Memory Encryption - Multi Key	Yes
Intel AES New Instructions	Yes
Intel Trusted Execution Technology	Yes
Execute Disable Bit	Yes
Intel OS Guard	Yes
Intel Boot Guard	Yes
Mode-based Execute Control (MBEC)	Yes
Intel Stable IT Platform Program (SIPP)	Yes
Intel Virtualization Technology with Redirect Protection (VT-rp)	Yes
Intel Virtualization Technology (VT-x)	Yes
Intel Virtualization Technology for Directed I/O (VT-d)	Yes
Intel VT-x with Extended Page Tables (EPT)	Yes

FAQ

What socket does the Intel Core Ultra 7 265 CPU require?

The Intel Core Ultra 7 265 uses the LGA1851 socket, so you need a compatible motherboard based on Intel 800 series chipsets to install this processor correctly in a desktop build.

Is the Intel Core Ultra 7 265 suitable for gaming?

Yes, with its 20 core design and up to 5.3GHz boost clock, this CPU is suitable for gaming, offering strong multi core performance that benefits modern game engines and multitasking during gameplay.

Does this processor support DDR5 memory?

Yes, the Ultra 7 265 supports high speed DDR5 memory up to 6400MT/s, enabling increased system responsiveness and faster data throughput in demanding tasks.

Does the processor include integrated graphics?

Yes, this processor includes Intel integrated graphics, providing basic visual output without the need for a discrete graphics card for general computing tasks.

What types of tasks is the Intel Core Ultra 7 265 best for?

This CPU excels in multitasking, content creation, AI assisted workloads, and productivity tasks, making it ideal for demanding desktop systems and professional computing environments.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/BX80768265-Intel-Core-Ultra-7-265-2-4GHz-up-to-5-3GHz-Buy-p-319817.php>

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