Intel Core Ultra 7 265F / 2.4 GHz processor - Box(BX80768265F)

Intel Core Ultra 7 265F - 2.4 GHz - 20-core - 20 threads - 30 MB cache - FCLGA1851 Socket - Box

The Intel Core Ultra 7 processor integrates advanced technologies to enhance performance and security. With Smart Cache technology, it efficiently manages data for faster processing speeds. Features like Intel Quick Sync Video facilitate seamless multimedia experiences, while support for virtualization ensures optimal resource management. Built with numerous security features such as Intel Secure Key and Intel Boot Guard, this processor provides protection against threats. Designed for high-performance computing, it includes Intel Advanced Vector Extensions 2 (AVX2.0) and Intel Deep Learning Boost (DL Boost) to accelerate workloads, from data analysis to AI applications. This processor is a reliable choice for users seeking improved performance and security in their computing tasks.

Key Selling Points

Smart Cache technology for efficient data management
Supports multiple advanced security features
Integrated Intel Quick Sync Video for enhanced multimedia performance
Flexible virtualization capabilities for optimal resource allocation
Includes Intel Deep Learning Boost for accelerated AI workloads

Product Features

Efficient data management
Smart Cache technology dynamically allocates cache space, improving data access speed and processing efficiency.

Advanced security capabilities
Features like Intel Secure Key and Intel Boot Guard protect sensitive data and ensure secure boot processes.

Optimized multimedia performance
Intel Quick Sync Video allows for fast video encoding and decoding, enhancing the multimedia experience for users.

Robust virtualization support
Supports Intel Virtualization Technology (VT-x and VT-d), allowing efficient management of system resources across virtual machines.

Accelerated AI workloads
Intel Deep Learning Boost (DL Boost) enhances AI and machine learning performance, making it ideal for data-intensive applications.

Main Specifications

Product Description	Intel Core Ultra 7 265F / 2.4 GHz processor - Box
Product Type	Processor
Processor Type	Intel Core Ultra 7 265F (Series 2)
Number of Cores	20-core / 20 threads
Cache	30 MB
Compatible Processor Socket	FCLGA1851 Socket
Processor Qty	1
Clock Speed	2.4 GHz (P-core) / 1.8 GHz (E-core)
Max Turbo Speed	5.3 GHz (P-core) / 4.6 GHz (E-core)

Features	Execute Disable Bit capability, Idle States, Instruction Set 64-bit, Intel 64 Technology, Intel Advanced Vector Extensions 2 (AVX2.0), Intel AES New Instructions (AES-NI), Intel Boot Guard, Intel Control-Flow Enforcement Technology, Intel Gaussian and Neural Accelerator 3.5, Intel OS Guard, Intel Secure Key, Intel Speed Shift Technology, Intel SSE4.1, Intel SSE4.2, Intel Standard Manageability (ISM), Intel Thread Director, Intel Trusted Execution Technology, Intel Turbo Boost Max Technology 3.0, Intel Turbo Boost Technology 2.0, Intel Virtualization Technology for Directed (VT-x), Intel Virtualization Technology for Directed I/O (VT-d), Intel Volume Management Device (VMD), Intel VT-x with Extended Page Tables (EPT), Mode-based Execute Control (MBEC), SpeedStep technology, Thermal Monitoring Technologies

Extended Specification

General

Product Type	Processor

Processor

Type / Form Factor	Intel Core Ultra 7 265F (Series 2)
Number of Cores	20-core
Number of Threads	20 threads
Cache	30 MB
Cache Memory Details	Smart Cache - 30 MB ¦ L2 - 36 MB
Processor Qty	1
Clock Speed	2.4 GHz (P-core) / 1.8 GHz (E-core)
Max Turbo Speed	5.3 GHz (P-core) / 4.6 GHz (E-core)
Compatible Processor Socket	FCLGA1851 Socket
Thermal Design Power	182 W
Thermal Specification	105 °C
PCI Express Revision	4.0/5.0
PCI Express Configurations	1x16+2x4, 2x8+2x4, 1x8+4x4
PCI Express Lanes Qty	24
Architecture Features	Execute Disable Bit capability, Idle States, Instruction Set 64-bit, Intel 64 Technology, Intel Advanced Vector Extensions 2 (AVX2.0), Intel AES New Instructions (AES-NI), Intel Boot Guard, Intel Control-Flow Enforcement Technology, Intel Gaussian and Neural Accelerator 3.5, Intel OS Guard, Intel Secure Key, Intel Speed Shift Technology, Intel SSE4.1, Intel SSE4.2, Intel Standard Manageability (ISM), Intel Thread Director, Intel Trusted Execution Technology, Intel Turbo Boost Max Technology 3.0, Intel Turbo Boost Technology 2.0, Intel Virtualization Technology for Directed (VT-x), Intel Virtualization Technology for Directed I/O (VT-d), Intel Volume Management Device (VMD), Intel VT-x with Extended Page Tables (EPT), Mode-based Execute Control (MBEC), SpeedStep technology, Thermal Monitoring Technologies

Miscellaneous

Package Type	Intel Boxed

Integrated Graphics

Features	Intel Quick Sync Video, Quad Display Capable