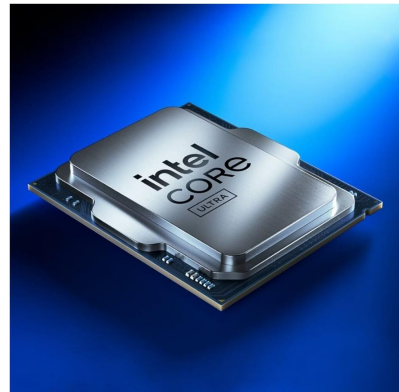


CP-IR225TO

Intel Core Ultra 5 225T LGA1851 2.5GHz up to 4.9GHz 10-core Processor - OEM

Product Overview

Intel Core Ultra 5 225T LGA1851 2.5GHz up to 4.9GHz 10-core Processor - OEM, Code name Arrow Lake, Intel Core Ultra processors (Series 2), 6 Performance-cores, 4 Efficient-cores, 20 MB Intel Smart Cache, 22 MB total L2 Cache, 35 W Processor base Power, 114 W Maximum Turbo Power, Intel Graphics onboard, Intel AI boost NPU, 13 NPU peak TOPS (Int8), No Box oem



Specifications

Overview Summary:

Experience exceptional computing power with the Intel Core Ultra 5 225T processor. Designed for enthusiasts and professionals in South Africa, this 10-core CPU delivers smooth multitasking, impressive turbo speeds up to 4.9GHz, and AI-accelerated performance for demanding applications. Shop now to build or upgrade your high-performance desktop system with cutting-edge Intel technology.

Ideal for OEM integration, this processor supports integrated Intel graphics and advanced AI workloads, making it a smart choice for creative tasks, gaming, and everyday computing. Buy now and harness the power of hybrid core architecture for faster, energy-efficient performance.

Performance tier:High-performance

Uses:Gaming, content creation, multitasking, AI workloads, desktop computing

Overview:

Intel Core Ultra 5 225T Processor for High-Performance Computing

Experience the next level of computing with the Intel Core Ultra 5 225T processor. Designed for enthusiasts, professionals, and multitaskers, this cutting-edge processor delivers exceptional speed, efficiency, and AI-powered performance for modern applications. Whether for gaming, content creation, or everyday computing, the Intel Core Ultra 5 225T ensures smooth and responsive operation under demanding workloads.

Description:

The Intel Core Ultra 5 225T combines 10 powerful cores with advanced AI capabilities to handle intensive tasks effortlessly. With a base speed of 2.5GHz and turbo performance up to 4.9GHz, it delivers fast processing for both single-threaded and multi-threaded applications. Its integrated Intel graphics and AI acceleration enable smarter, faster computing while keeping energy efficiency in mind. Ideal for OEM integration, this processor is perfect for building high-performance desktops.

Features:

Processor Performance and Architecture

The Intel Core Ultra 5 225T is part of Intel's Arrow Lake Series 2 processors. It features a hybrid architecture with 6 performance cores and 4 efficient cores. This design ensures powerful multitasking while optimizing energy usage for less demanding tasks. With 20 MB Intel Smart Cache and a total of 22 MB L2 cache, the processor manages data quickly, reducing latency and improving overall system responsiveness.

Speed and Power Efficiency

- Base clock: 2.5GHz
- Maximum turbo frequency: 4.9GHz
- Processor base power: 35W
- Maximum turbo power: 114W

This combination of high-speed performance and smart power management allows users to run demanding applications while maintaining energy efficiency.

Integrated Graphics and AI Capabilities

Equipped with onboard Intel graphics, the Core Ultra 5 225T supports a wide range of visual applications without the need for a dedicated GPU. Additionally, it features an AI boost neural processing unit (NPU) with a peak performance of 13 TOPS (Int8), enhancing AI workloads, machine learning tasks, and other intelligent computing applications.

OEM Ready Design

This processor is supplied as an OEM unit without retail packaging, making it suitable for system builders and manufacturers looking to integrate high-performance processing into their desktops or workstations.

Why Choose Intel Core Ultra 5 225T

- Exceptional multi-core performance for demanding workloads
- Energy-efficient design with hybrid core architecture
- Onboard AI acceleration for smarter computing
- Smooth graphics support without an external GPU
- Ideal for high-performance desktops and OEM projects

Specifications:

© 2025 Respective owners and brand holders. This table has been carefully researched and generated by ComXpert International CC (http://www.comx.co.za), however, errors and omissions may occur. Only references to South Africa apply. All products are sourced in South Africa from the official suppliers and the warranty is that of the local supplier. E&OE. This table and our site's content may be used on condition that this notice and link remains intact and unaltered.	
Specifications	
Product Code	CP-IR225TO
Essentials	
Product Collection	Intel Core Ultra Processors (Series 2)
Code Name	Products formerly Arrow Lake
Vertical Segment	Desktop
Processor Number	225T
Overall Peak TOPS (Int8)	23
CPU Specifications	
Total Cores	10
# of Performance-cores	6
# of Efficient-cores	4
Total Threads	10
Max Turbo Frequency	4.9 GHz
Performance-core Max Turbo Frequency	4.9 GHz
Efficient-core Max Turbo Frequency	4.4 GHz
Performance-core Base Frequency	2.5 GHz
Efficient-core Base Frequency	1.9 GHz
Cache	20 MB Intel Smart Cache
Total L2 Cache	22 MB
Processor Base Power	35 W
Maximum Turbo Power	114 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	
Marketing Status	Launched
Launch Date	Q1'25
Embedded Options Available	Yes
Use Conditions	PC/Client/Tablet
Memory Specifications	

ComX Computers

Product Specification Sheet

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	No
GPU Specifications	
GPU Name	Intel Graphics
Graphics Base Frequency	300 MHz
Graphics Max Dynamic Frequency	1.8 GHz
GPU Peak TOPS (Int8)	4
Graphics Output	DP2.1 UHBR20, HDM2.1 FRL 12GHz, eDP1.4b
Xe-cores	2
Max Resolution (HDMI)	4K @ 60Hz (HDMI 2.1 TMDS) 8K @ 60Hz (HDMI2.1 FRL)
Max Resolution (DP)	8K @ 60Hz
Max Resolution (eDP - Integrated Flat Panel)	4K @ 60Hz
DirectX* Support	12
OpenGL* Support	4.5
OpenCL* Support	3
Intel Quick Sync Video	Yes
# of Displays Supported	4
Device ID	0x7D67
Intel Deep Learning Boost (Intel DL Boost) on GPU	Yes
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

ComX Computers

Product Specification Sheet

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 2022D
Max Operating Temperature	105 degreesC
Advanced Technologies	
Intel Gaussian & Neural Accelerator	3.5
Intel Thread Director	Yes
Intel Speed Shift Technology	Yes
Intel Turbo Boost Technology	2
Intel 64	Yes
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 Standard Manageability (ISM)	Yes
Intel Secure Key	Yes
Intel Control-Flow Enforcement Technology	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 Virtualization Technology (VT-x)	Yes
Intel Virtualization Technology for Directed I/O (VT-d)	Yes
Intel VT-x with Extended Page Tables (EPT)	Yes

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/CP-IR225TO-Intel-Core-Ultra-5-225T-LGA1851-2-5GHz-up-Buy-p-329053.php>

Images and specifications are provided for reference and are subject to change without notice. E&OE.

Terms of Use: <https://www.comx-computers.co.za/terms-of-use.php>

Terms of Sale: <https://www.comx-computers.co.za/terms-of-sale.php>

PDF generated: 2026-10-18 07:15:50.

This PDF was generated automatically and may include content prepared or assisted by automated or AI-based systems. While reasonable care is taken to ensure accuracy, errors or omissions may occur.

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.