ComX Computers
Product Specification Sheet

BX8071512400-CA

Intel Alder Lake 12th gen i5-12400 up to 4.4GHz 6 Core Socket LGA 1700 7.5MB L2 Cache Processor

Product Overview

Intel Alder Lake 12th gen i5-12400 up to 4.4GHz 6 Core Socket LGA 1700 7.5MB L2 Cache Processor, 6 performance-cores, 12 total threads, 18 MB Intel Smart Cache, 7.5 MB total L2 Cache, 65 W Processor base power, 117 W Maximum Turbo power, Intel UHD Graphics 770



Specifications

Overview Summary:

The Intel Core i5-12400 12th Gen processor delivers reliable desktop performance with 6 high-speed cores and 12 threads, reaching up to 4.4 GHz turbo frequency. Ideal for gaming, productivity, and multimedia, it supports DDR4 and DDR5 memory for flexible upgrades. Buy now to enhance your PC setup with advanced Intel technology and Intel UHD Graphics 770 for smooth visuals.

Perfect for South African buyers seeking a powerful yet efficient CPU, the i5-12400 offers strong performance for home, office, or creative projects. Shop now and experience faster processing, improved multitasking, and future-ready technology.

Performance tier: Mid-Range

Uses: Desktop computing, Gaming, Content creation, Productivity, Multimedia

Overview:

Powerful Performance for Modern Computing
Experience seamless multitasking and high-speed performance with the Intel Alder Lake 12th Gen i5-12400 processor. Designed for demanding applications and everyday computing, this processor combines efficiency with advanced processing power, making it ideal for both work and play.

Description:

The Intel i5-12400 processor delivers a robust 6-core design with 12 threads, ensuring smooth operation for gaming, content creation, and productivity tasks. With a maximum turbo frequency of 4.4GHz and Intel UHD Graphics 770 integrated, users can enjoy fast processing and reliable graphics performance. Its energy-efficient design balances performance and power

consumption, while a substantial cache improves responsiveness across applications.

Features:

Processor Capabilities

- 6 performance cores optimized for multitasking
- 12 total threads to handle multiple applications simultaneously
- Base power of 65W with a maximum turbo power of 117W
- 18 MB Intel Smart Cache for faster access to frequently used data
- 7.5 MB total L2 cache supporting efficient processing

Integrated Graphics for Everyday Use
The Intel UHD Graphics 770 ensures smooth visuals for everyday tasks and light gaming, offering a reliable graphics solution without the need for a dedicated GPU.

Efficient Design for Modern Systems
Socket LGA 1700 compatibility allows easy integration into modern motherboards. Its energy-conscious architecture helps maintain performance while keeping power consumption in check, making it a balanced choice for both home and office setups.

Optimized for Productivity and Entertainment
Whether streaming content, editing documents, or running multiple applications, this processor provides consistent and responsive performance. Its combination of core power, thread count, and cache size ensures that your system can handle daily tasks effortlessly.

Specifications:

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Specifications	
Product Code	BX8071512400-CA
Essentials	
Product Collection	12th Generation Intel Core i5 Processors
Code Name	Products formerly Alder Lake
Vertical Segment	Desktop
Processor Number	i5-12400
Status	Launched
Launch Date	Q1'22
Lithography	Intel 7
Use Conditions	PC/Client/Tablet
CPU Specifications	
Total Cores	6
# of Performance-cores	6
# of Efficient-cores	0

Total Threads	12
Max Turbo Frequency	4.40 GHz
Performance-core Max Turbo Frequency	4.40 GHz
Performance-core Base Frequency	2.50 GHz
Cache	18 MB Intel Smart Cache
Total L2 Cache	7.5 MB
Processor Base Power	65 W
Maximum Turbo Power	117 W
Supplemental Information	
Embedded Options Available	Yes
Memory Specifications	
Max Memory Size (dependent on memory type)	128 GB
Memory Types	Up to DDR5 4800 MT/s
	Up to DDR4 3200 MT/s
Max # of Memory Channels	2
Max Memory Bandwidth	76.8 GB/s
Processor Graphics	
Processor Graphics	Intel UHD Graphics 730
Graphics Base Frequency	300 MHz
Graphics Max Dynamic Frequency	1.45 GHz
Graphics Output	eDP 1.4b, DP 1.4a, HDMI 2.1
Execution Units	24
Max Resolution (HDMI)	4096 x 2160 @ 60Hz
Max Resolution (DP)	7680 x 4320 @ 60Hz
Max Resolution (eDP - Integrated Flat Panel)	5120 x 3200 @ 120Hz
DirectX* Support	12
OpenGL* Support	4.5
Multi-Format Codec Engines	1
Intel Quick Sync Video	Yes
Intel Clear Video HD Technology	Yes
# of Displays Supported	4
Device ID	0x4692 / 0x4682
OpenCL* Support	2.1
Expansion Options	

Direct Media Interface (DMI) Revision	4
Max # of DMI Lanes	8
Scalability	1S Only
PCI Express Revision	5.0 and 4.0
PCI Express Configurations	Up to 1x16+4, 2x8+4
Max # of PCI Express Lanes	20
Package Specifications	
Sockets Supported	FCLGA1700
Max CPU Configuration	1
Thermal Solution Specification	PCG 2020C
TJUNCTION	100degreesC
Package Size	45.0 mm x 37.5 mm
Advanced Technologies	
Intel Gaussian & Neural Accelerator	3
Intel Thread Director	No
Intel Deep Learning Boost (Intel DL Boost)	Yes
Intel Optane Memory Supported	Yes
Intel Speed Shift Technology	Yes
Intel Turbo Boost Max Technology 3.0	No
Intel Turbo Boost Technology	2
Intel Hyper-Threading Technology	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
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 AES New Instructions	Yes
Secure Key	Yes
Intel OS Guard	Yes
Execute Disable Bit	Yes
Intel Boot Guard	Yes
Mode-based Execute Control (MBEC)	Yes
Intel Control-Flow Enforcement Technology	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/BX8071512400-CA-Intel-Alder-Lake-12th-gen-i5-12400-up-to-4-4GHz-6-Core-Socket-LGA-p-333322.php

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