

# CP-iA12400F

Intel Alder lake Core i5-12400F 2.5Ghz 6 Core LGA 1700 Processor

## Product Overview

Intel Alder lake Core i5-12400F LGA 1700 - 6x Performance-cores with Hyper-Threading / 12 threads, no Energy-efficient-cores, P-Core: 2.5Ghz / 4.4Ghz boost, 10nm, SSE4, AVX2, BMi, FMA3, SBA, vPro, TSX, VT-x VT-d AES-N, built-in dual channel DDR5-4800



## Specifications

### Specifications:

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| Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                          |
| Product Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CP-iA12400F                              |
| Essentials                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                          |
| Product Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 12th Generation Intel Core i5 Processors |
| Code Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Products formerly Alder Lake             |
| Vertical Segment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Desktop                                  |
| Processor Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | i5-12400F                                |
| 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                                 |

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### Product Specification Sheet

|                                            |                         |
|--------------------------------------------|-------------------------|
| 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                 | No                      |
| 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               |
| 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                                  | 100 degreesC            |
| 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                     |

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### Product Specification Sheet

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|---------------------------------------------------------|----------------------------------------|
| 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                                    |
| <b>Security &amp; Reliability</b>                       |                                        |
| 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/CP-iA12400F-Intel-Alder-lake-Core-i5-12400F-2-5Ghz-Buy-p-263425.php>

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