

UPE | Compare Intel® Products

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,Intel® Core™ i5-10400F Processor (12M Cache- up to 4.30 GHz)

Essentials

Product Collection,10th Generation Intel® Core™ i5 Processors

Code Name,Products formerly Comet Lake

Vertical Segment,Desktop

Processor Number,i5-10400F

Status,Launched

Launch Date,Q2'20

Lithography,14 nm

Recommended Customer Price,\$157.00

Use Conditions,PC/Client/Tablet

CPU Specifications

Total Cores,6

Total Threads,12

Max Turbo Frequency,4.30 GHz

Intel® Turbo Boost Technology 2.0 Frequency‡,4.30 GHz

Processor Base Frequency,2.90 GHz

Cache,12 MB Intel® Smart Cache

Bus Speed,8 GT/s

TDP,65 W

Supplemental Information

Embedded Options Available,No

Datasheet,View now

Memory Specifications

Max Memory Size (dependent on memory type),128 GB

Memory Types,DDR4-2666

Max # of Memory Channels,2

Max Memory Bandwidth,41.6 GB/s

ECC Memory Supported ‡,No

Expansion Options

Scalability,1S Only

PCI Express Revision,3.0

PCI Express Configurations ‡,Up to 1x16 | 2x8 | 1x8+2x4

Max # of PCI Express Lanes,16

Package Specifications

Sockets Supported,FCLGA1200

Max CPU Configuration,1

Thermal Solution Specification,PCG 2015C

TJUNCTION,100°C

Package Size,37.5mm x 37.5mm

Advanced Technologies

Intel® Optane™ Memory Supported ‡,Yes
Intel® Thermal Velocity Boost,No
Intel® Turbo Boost Max Technology 3.0 ‡,No
Intel® Turbo Boost Technology ‡,2.0
Intel® Hyper-Threading Technology ‡,Yes
Intel® Transactional Synchronization Extensions,No
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® Identity Protection Technology ‡,Yes

Security & Reliability

Intel vPro® Platform Eligibility ‡,No
Intel® AES New Instructions,Yes
Secure Key,Yes
Intel® Software Guard Extensions (Intel® SGX),Yes with Intel® ME
Intel® OS Guard,Yes
Intel® Trusted Execution Technology ‡,No
Execute Disable Bit ‡,Yes
Intel® Boot Guard,Yes
Intel® Stable IT Platform Program (SIPP),No
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