ComX Computers
Product Specification Sheet

CP-iM10700K

Intel CoMet Lake Core i7-10700K 3.8Ghz 8 cores Hyper-Threading / 16 threads LGA 1200 Processor

Product Overview

Intel CoMet Lake LGA 1200 i7-10700K - 8 cores Hyper-Threading / 16 threads, 3.8Ghz box CPU/ 5.1Ghz turbo boost, unlocked clock multiplier, 14nm, SSE4, AVX2, BMi, FMA3, SBA, vPro, TSX, VT-x VT-d AES-N, built-in dual channel DDR4-2933 (non-ECC only) memory controller, 45.8Gb/sec memory bandwidth, built-in UHD630 graphics (24EU, 350/1200mhz, dual stream video decode HDMi), 2mb L2 cache 16mb L3 cache, 125w - Quick Sync Video InTru 3D Insider Clear Video HD Triple Display Capable wireless display Capable - box CPU with no fan



Specifications

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Specifications	
Product Code	CP-iM10700K
Essentials	
Product Collection	10th Generation Intel Core i7 Processors
Code Name	Products formerly Comet Lake
Vertical Segment	Desktop
Processor Number	i7-10700K
Lithography	14 nm
Use Conditions	PC/Client/Tablet
Performance	
# of Cores	8
# of Threads	16
Processor Base Frequency	3.80 GHz

Max Turbo Frequency	5.10 GHz
Cache	16 MB Intel Smart Cache
Bus Speed	8 GT/s
Intel Turbo Boost Max Technology 3.0 Frequency	5.10 GHz
TDP	125 W
Configurable TDP-down Frequency	3.50 GHz
Configurable TDP-down	95 W
Supplemental Information	
Embedded Options Available	No
Memory Specifications	
Max Memory Size (dependent on memory type)	128 GB
Memory Types	DDR4-2933
Max # of Memory Channels	2
Max Memory Bandwidth	45.8 GB/s
ECC Memory Supported	No
Processor Graphics	
Processor Graphics	Intel UHD Graphics 630
Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	1.20 GHz
Graphics Video Max Memory	64 GB
4K Support	Yes, at 60Hz
Max Resolution (HDMI 1.4)	4096x2160@30Hz
Max Resolution (DP)	4096x2304@60Hz
Max Resolution (eDP - Integrated Flat Panel)	4096x2304@60Hz
DirectX* Support	12
OpenGL* Support	4.5
Intel Quick Sync Video	Yes
Intel InTru 3D Technology	Yes
Intel Clear Video HD Technology	Yes
Intel Clear Video Technology	Yes
# of Displays Supported	3
Device ID	0x9BC5
Expansion Options	
Scalability	1S Only
PCI Express Revision	3

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 2015D
TJUNCTION	100 degreesC
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	Yes
Intel Turbo Boost Technology	2
Intel vPro Platform Eligibility	Yes
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 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
Intel Stable Image Platform Program (SIPP)	Yes
Security & Reliability	
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	Yes
Execute Disable Bit	Yes
Execute Disable Bit	Yes
Intel Boot Guard	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-iM10700K-Intel-CoMet-Lake-Core-i7-10700K-3-8Ghz-8-cores-Hyper-Threading-16-threads-p-242930.php

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