

ARK | Compare Intel® Products
7/2/2018 11:42:18 PM

Code Name
<u>Essentials</u>
Vertical Segment
Processor Number
Status
Launch Date
Lithography
Recommended Customer Price
Use Conditions
<u>Performance</u>
of Cores
of Threads
Processor Base Frequency
Max Turbo Frequency
Cache
Bus Speed
TDP
<u>Supplemental Information</u>
Embedded Options Available
Datasheet
<u>Memory Specifications</u>
Max Memory Size (dependent on memory type)
Memory Types
Max # of Memory Channels
Max Memory Bandwidth
ECC Memory Supported ‡
<u>Processor Graphics</u>
Processor Graphics ^{‡}
Graphics Base Frequency
Graphics Max Dynamic Frequency
Graphics Video Max Memory
4K Support
Max Resolution (HDMI 1.4)‡
Max Resolution (DP)‡
Max Resolution (eDP - Integrated Flat Panel)‡
DirectX* Support
OpenGL* Support
Intel® Quick Sync Video
Intel® InTru™ 3D Technology
Intel® Clear Video HD Technology
Intel® Clear Video Technology

of Displays Supported ‡
Device ID
<u>Expansion Options</u>
Scalability
PCI Express Revision
PCI Express Configurations ‡
Max # of PCI Express Lanes
<u>Package Specifications</u>
Sockets Supported
Max CPU Configuration
Thermal Solution Specification
T _{JUNCTION}
Package Size
Low Halogen Options Available
<u>Advanced Technologies</u>
Intel® Optane™ Memory Supported ‡
Intel® Turbo Boost Technology
Intel® vPro™ Technology ‡
Intel® Hyper-Threading Technology ‡
Intel® Virtualization Technology (VT-x) ‡
Intel® Virtualization Technology for Directed I/O (VT-d) ‡
Intel® VT-x with Extended Page Tables (EPT) ‡
Intel® TSX-NI
Intel® 64 ‡
Instruction Set
Instruction Set Extensions
Idle States
Enhanced Intel SpeedStep® Technology
Thermal Monitoring Technologies
Intel® Identity Protection Technology ‡
Intel® Stable Image Platform Program (SIPP)
<u>Security & Reliability</u>
Intel® AES New Instructions
Secure Key
Intel® Software Guard Extensions (Intel® SGX)
Intel® Memory Protection Extensions (Intel® MPX)
Intel® OS Guard
Intel® Trusted Execution Technology ‡
Execute Disable Bit ‡
Intel® Boot Guard

Intel® Core™ i7-8086K Processor (12M Cache, up to 5.00 GHz)
Coffee Lake
Desktop
i7-8086K
Launched
Q2'18
14 nm
\$425.00
PC/Client/Tablet
6
12
4.00 GHz
5.00 GHz
12 MB SmartCache
8 GT/s DMI3
95 W
No
Link
64 GB
DDR4-2666
2
41.6 GB/s
No
Intel® UHD Graphics 630
350 MHz
1.20 GHz
64 GB
Yes, at 60Hz
4096x2304@24Hz
4096x2304@60Hz
4096x2304@60Hz
12
4.5
Yes
Yes
Yes
Yes

[illegible]