

UPE | Compare Intel® Products

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,Intel® Core™ i7-7700 Processor (8M Cache- up to 4.20 GHz)

#### Essentials

Product Collection,7th Generation Intel® Core™ i7 Processors

Code Name,Products formerly Kaby Lake

Vertical Segment,Desktop

Processor Number,i7-7700

Lithography,14 nm

Recommended Customer Price,\$303.00

Use Conditions,PC/Client/Tablet

#### CPU Specifications

Total Cores,4

Total Threads,8

Max Turbo Frequency,4.20 GHz

Intel® Turbo Boost Technology 2.0 Frequency‡,4.20 GHz

Processor Base Frequency,3.60 GHz

Cache,8 MB Intel® Smart Cache

Bus Speed,8 GT/s

# of QPI Links,0

TDP,65 W

#### Supplemental Information

Marketing Status,Launched

Launch Date,Q1'17

Servicing Status,ESU Notification Issued

End of Servicing Updates Date,Sunday | March 31 | 2024

Embedded Options Available,Yes

Datasheet,View now

#### Memory Specifications

Max Memory Size (dependent on memory type),64 GB

Memory Types,DDR4-2133/2400 | DDR3L-1333/1600 @ 1.35V

Max # of Memory Channels,2

ECC Memory Supported ‡,No

#### GPU Specifications

GPU Name‡,Intel® HD Graphics 630

Graphics Base Frequency,350 MHz

Graphics Max Dynamic Frequency,1.15 GHz

Graphics Video Max Memory,64 GB

4K Support,Yes | at 60Hz

Max Resolution (HDMI)‡,4096x2304@24Hz

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, 0x5912

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, FCLGA1151  
Max CPU Configuration, 1  
Thermal Solution Specification, PCG 2015C (65W)  
TJUNCTION, 100°C  
Package Size, 37.5mm x 37.5mm

Advanced Technologies  
Intel® Optane™ Memory Supported ‡, Yes  
Intel® Turbo Boost Technology ‡, 2.0  
Intel® Hyper-Threading Technology ‡, Yes  
Intel® Transactional Synchronization Extensions, 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® Identity Protection Technology ‡, Yes

Security & Reliability  
Intel vPro® Eligibility ‡, Intel vPro® Platform  
Intel® AES New Instructions, Yes  
Secure Key, Yes  
Intel® Software Guard Extensions (Intel® SGX), Yes with Intel® ME  
Intel® Memory Protection Extensions (Intel® MPX), Yes  
Intel® OS Guard, Yes  
Intel® Trusted Execution Technology ‡, Yes  
Execute Disable Bit ‡, Yes  
Intel® Boot Guard, Yes  
Intel® Stable IT Platform Program (SIPP), 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