

Intel® Product Specification Comparison	https://www.intel.com/content/www/us/en/products/compare.html?productIds=88196,80806,75124,52209			
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	Intel® Core™ i7-6700 Processor	Intel® Core™ i7-4790 Processor	Intel® Core™ i7-4770S Processor	Intel® Core™ i5-2500 Processor
Essentials				
Product Collection	6th Generation Intel® Core™ i7 Processors	4th Generation Intel® Core™ i7 Processors	4th Generation Intel® Core™ i7 Processors	Legacy Intel® Core™ Processors
Vertical Segment	Desktop	Desktop	Desktop	Desktop
Processor Number	i7-6700	i7-4790	i7-4770S	i5-2500
Lithography	14 nm	22 nm	22 nm	32 nm
CPU Specifications				
Total Cores	4	4	4	4
Total Threads	8	8	8	4
Max Turbo Frequency	4.00 GHz	4.00 GHz	3.90 GHz	3.70 GHz
Intel® Turbo Boost Technology 2.0 Frequency‡	4.00 GHz	4.00 GHz	3.90 GHz	3.70 GHz
Processor Base Frequency	3.40 GHz	3.60 GHz	3.10 GHz	3.30 GHz
Cache	8 MB Intel® Smart Cache	8 MB Intel® Smart Cache	8 MB Intel® Smart Cache	6 MB Intel® Smart Cache
Bus Speed	8 GT/s	5 GT/s	5 GT/s	5 GT/s
TDP	65 W	84 W	65 W	95 W
Supplemental Information				
Marketing Status	Launched	Discontinued	Discontinued	Discontinued
Launch Date	Q3'15	Q2'14	Q2'13	Q1'11
Expected Discontinuance		07/14/2017		Q1'13
Servicing Status	End of Servicing Lifetime	End of Servicing Lifetime	End of Servicing Lifetime	End of Servicing Lifetime
End of Servicing Updates Date	Friday September 30 2022	Wednesday June 30 2021	Wednesday June 30 2021	Tuesday December 31 2019
Embedded Options Available	Yes	No	Yes	No
Use Conditions	PC/Client/Tablet		PC/Client/Tablet	
Included Items	Thermal Solution - E97379			
Memory Specifications				
Max Memory Size (dependent on memory type)	64 GB	32 GB	32 GB	32 GB
Memory Types	DDR4-1866/2133 DDR3L-1333/1600 @ 1.35V	DDR3-1333/1600 DDR3L-1333/1600 @ 1.5V	DDR3-1333/1600 DDR3L-1333/1600 @ 1.5V	DDR3 1066/1333
Max # of Memory Channels	2	2	2	2
Max Memory Bandwidth	34.1 GB/s	25.6 GB/s	25.6 GB/s	21 GB/s
ECC Memory Supported ‡	No	No	No	No
GPU Specifications				
GPU Name‡	Intel® HD Graphics 530	Intel® HD Graphics 4600	Intel® HD Graphics 4600	Intel® HD Graphics 2000
Graphics Base Frequency	350 MHz	350 MHz	350 MHz	850 MHz
Graphics Max Dynamic Frequency	1.15 GHz	1.20 GHz	1.20 GHz	1.10 GHz
Intel® Quick Sync Video	Yes	Yes	Yes	Yes
Intel® InTru™ 3D Technology	Yes	Yes	Yes	Yes
Intel® Flexible Display Interface (Intel® FDI)		Yes	Yes	Yes
Intel® Clear Video HD Technology	Yes	Yes	Yes	Yes
# of Displays Supported ‡	3	3	3	2
Device ID	0x1912	0x412	0x412	0x102
Graphics Video Max Memory	64 GB	2 GB	2 GB	
Graphics Output	eDP/DP/HDMI/DVI	eDP/DP/HDMI/DVI/VGA	eDP/DP/HDMI/DVI/VGA	
Max Resolution (HDMI)‡	4096x2304@24Hz	4096x2304@24Hz	4096x2304@24Hz	
Max Resolution (DP)‡	4096x2304@60Hz	3840x2160@60Hz	3840x2160@60Hz	
Max Resolution (eDP - Integrated Flat Panel)‡	4096x2304@60Hz	3840x2160@60Hz	3840x2160@60Hz	
Max Resolution (VGA)‡	N/A	1920x1200@60Hz	1920x1200@60Hz	
DirectX* Support	12	11.2/12	11.2/12	
OpenGL* Support	4.5	4.3	4.3	
4K Support	Yes at 60Hz			
Intel® Clear Video Technology	Yes			

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Expansion Options				
PCI Express Revision	3	Up to 3.0	Up to 3.0	2
Max # of PCI Express Lanes	16	16	16	16
Scalability	1S Only	1S Only	1S Only	
PCI Express Configurations ‡	Up to 1x16 2x8 1x8+2x4	Up to 1x16 2x8 1x8+2x4	Up to 1x16 2x8 1x8+2x4	
Package Specifications				
Sockets Supported	FCLGA1151	FCLGA1150	FCLGA1150	LGA1155
Max CPU Configuration	1	1	1	1
TCASE	71°C	72.72°C	71.35°C	72.6°C
Package Size	37.5mm x 37.5mm	37.5mm x 37.5mm	37.5mm x 37.5mm	37.5mm x 37.5mm
Thermal Solution Specification	PCG 2015C (65W)	PCG 2013D	PCG 2013C	
Advanced Technologies				
Intel® Turbo Boost Technology ‡	2	2	2	2
Intel® Hyper-Threading Technology ‡	Yes	Yes	Yes	No
Intel® 64 ‡	Yes	Yes	Yes	Yes
Instruction Set	64-bit	64-bit	64-bit	64-bit
Instruction Set Extensions	Intel® SSE4.1 Intel® SSE4.2 Intel® AVX2	Intel® SSE4.1 Intel® SSE4.2 Intel® AVX2	Intel® SSE4.1 Intel® SSE4.2 Intel® AVX2	Intel® SSE4.1 Intel® SSE4.2 Intel® AVX
Idle States	Yes	Yes	Yes	Yes
Enhanced Intel SpeedStep® Technology	Yes	Yes	Yes	Yes
Thermal Monitoring Technologies	Yes	Yes	Yes	Yes
Intel® Fast Memory Access				Yes
Intel® Flex Memory Access				Yes
Intel® Identity Protection Technology ‡	Yes	Yes	Yes	Yes
Intel® TSX-NI	Yes	No	No	
Intel® My WiFi Technology		Yes	Yes	
Intel® Optane™ Memory Supported ‡	No			
Security & Reliability				
Intel vPro® Eligibility ‡	Intel vPro® Platform	Intel vPro® Platform	Intel vPro® Platform	Intel vPro® Platform
Intel® AES New Instructions	Yes	Yes	Yes	Yes
Intel® Trusted Execution Technology ‡	Yes	Yes	Yes	Yes
Execute Disable Bit ‡	Yes	Yes	Yes	Yes
Intel® Virtualization Technology (VT-x) ‡	Yes	Yes	Yes	Yes
Intel® Virtualization Technology for Directed I/O (VT-d) ‡	Yes	Yes	Yes	Yes
Intel® VT-x with Extended Page Tables (EPT) ‡	Yes	Yes	Yes	Yes
Secure Key	Yes	Yes	Yes	
Intel® OS Guard	Yes	Yes	Yes	
Anti-Theft Technology		Yes	Yes	
Intel® Stable Image Platform Program (SIPP)	Yes	Yes	Yes	
Intel® Software Guard Extensions (Intel® SGX)	Yes with Intel® ME			
Intel® Memory Protection Extensions (Intel® MPX)	Yes			
Intel® Boot Guard	Yes			