ARK | Compare Intel® Products

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	Intel® Core™ i5-4460 Processor (6M Cache, up to 3.40 GHz)
Code Name	Haswell
Essentials	
Vertical Segment	Desktop
Processor Number	i5-4460
Status	End of Life
Launch Date	Q2'14
Expected Discontinuance	07/14/2017
Lithography	22 nm
Recommended Customer Price	$182.00 - $187.00
Performance	
# of Cores	4
# of Threads	4
Processor Base Frequency	3.20 GHz
Max Turbo Frequency	3.40 GHz
Cache	6 MB SmartCache
Bus Speed	5 GT/s DMI2
TDP	84 W
Supplemental Information	
Embedded Options Available	No
Datasheet	Link
Memory Specifications	
Max Memory Size (dependent on memory type)	32 GB
Memory Types	DDR3-1333/1600, DDR3L-1333/1600 @ 1.5V
Max # of Memory Channels	2
Max Memory Bandwidth	25.6 GB/s
ECC Memory Supported ‡	No

Processor Graphics

Processor Graphics ^{‡}	Intel® HD Graphics 4600
Graphics Base Frequency	350 MHz
Graphics Max Dynamic Frequency	1.10 GHz
Graphics Video Max Memory	2 GB
Graphics Output	eDP/DP/HDMI/VGA
Max Resolution (HDMI 1.4)‡	4096x2304@24Hz
Max Resolution (DP)‡	3840x2160@60Hz
Max Resolution (eDP - Integrated Flat Panel)‡	3840x2160@60Hz
Max Resolution (VGA)‡	1920x1200@60Hz
DirectX* Support	11.2/12
OpenGL* Support	4.3
Intel® Quick Sync Video	Yes
Intel® InTru™ 3D Technology	Yes
Intel® Flexible Display Interface (Intel® FDI)	Yes
Intel® Clear Video HD Technology	Yes
# of Displays Supported ‡	3
Device ID	0x412

Expansion Options

Scalability	1S Only
PCI Express Revision	Up to 3.0
PCI Express Configurations ‡	Up to 1x16, 2x8, 1x8+2x4
Max # of PCI Express Lanes	16

Package Specifications

Sockets Supported	FCLGA1150
Max CPU Configuration	1
Thermal Solution Specification	PCG 2013D
T_{CASE}	72.72°C
Package Size	37.5mm x 37.5mm

Low Halogen Options Available	See MDDS
Advanced Technologies	
Intel® Turbo Boost Technology	2.0
Intel® vPro™ Technology ‡	No
Intel® Hyper-Threading Technology ‡	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
Intel® TSX-NI	No
Intel® 64 ‡	Yes
Instruction Set	64-bit
Instruction Set Extensions	SSE4.1/4.2, AVX 2.0
Intel® My WiFi Technology	Yes
Idle States	Yes
Enhanced Intel SpeedStep® Technology	Yes
Thermal Monitoring Technologies	Yes
Intel® Identity Protection Technology ‡	Yes
Intel® Stable Image Platform Program (SIPP)	No
Security & Reliability	
Intel® AES New Instructions	Yes
Secure Key	Yes
Intel® OS Guard	Yes
Intel® Trusted Execution Technology ‡	No
Execute Disable Bit ‡	Yes
Anti-Theft Technology	Yes