

Compare Intel® Products

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Product Name	Intel® Core™ i3-550 Processor (4M Cache, 3.20 GHz)	Intel® Core™ i5-2300 Processor (6M Cache, 2.80 GHz)
Code Name	Clarkdale	Sandy Bridge
Status	Launched	Launched
Launch Date	Q2'10	Q1'11
Processor Number	i3-550	i5-2300
# of Cores	2	4
# of Threads	4	4
Clock Speed	3.2 GHz	2.8 GHz
Max Turbo Frequency		3.1 GHz
Cache	4 MB Intel® Smart Cache	6 MB Intel® Smart Cache
Bus/Core Ratio	24	28
Bus Type	DMI	DMI
System Bus	2.5 GT/s	5 GT/s
Instruction Set	64-bit	64-bit
Instruction Set Extensions	SSE4.2	SSE4.1/4.2, AVX
Embedded Options Available	No	No
Lithography	32 nm	32 nm
Max TDP	73 W	95 W
VID Voltage Range	0.6500V-1.4000V	
Tray 1ku Budgetary Price	\$117.00	\$177.00
Memory Specifications		
Max Memory Size (dependent on memory type)	16 GB	32 GB
Memory Types	DDR3-1066/1333	DDR3-1066/1333
# of Memory Channels	2	2
Max Memory Bandwidth	21 GB/s	21 GB/s
Physical Address Extensions	36-bit	
ECC Memory Supported		No

Graphics Specifications

Integrated Graphics	Yes	Yes
Intel® HD Graphics	Yes	Yes
Intel® HD Graphics with Dynamic Frequency		Yes
Graphics Base Frequency	733 MHz	850 MHz
Graphics Max Dynamic Frequency		1.1 GHz
Intel® Flexible Display Interface (Intel® FDI)	Yes	Yes
Intel® Clear Video HD Technology	Yes	Yes
Dual Display Capable	Yes	Yes

Expansion Options

Express Revision	2.0	2.0
PCI Express Configurations	1x16, 2x8	
# of PCI Express Ports	1	1

Package Specifications

Max CPU Configuration	1	1
T _{CASE}	72.6°C	72.6°C
Package Size	37.5mm x 37.5mm	37.5mm x 37.5mm
Lithography	32 nm	32 nm
Processing Die Size	81 mm ²	
# of Processing Die Transistors	382 million	
Graphics and IMC Lithography	45 nm	
Graphics and IMC Die Size	114 mm ²	
# of Graphics and IMC Die Transistors	177 million	
Sockets Supported	FCLGA1156	LGA1155

Advanced Technologies

Intel® Turbo Boost Technology	No	2.0
Intel® Hyper-Threading Technology	Yes	No
Intel® Virtualization Technology	Yes	Yes

(VT-x)		
Intel® Virtualization Technology for Directed I/O (VT-d)		No
Intel® Trusted Execution Technology	No	No
AES New Instructions	No	Yes
Intel® 64	Yes	Yes
Idle States	Yes	Yes
Enhanced Intel SpeedStep® Technology	Yes	Yes
Intel® Demand Based Switching	No	
Thermal Monitoring Technologies	No	Yes
Intel® Fast Memory Access		Yes
Intel® Flex Memory Access		Yes
Execute Disable Bit	Yes	Yes