

Builder's Guide To Desktop Computer Components: Tables Including Obsolete Components

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1. Latest Intel Desktop Chipsets By Intel

i For the parent page to this page, see [Builder's Guide To Desktop Computer Components \(stevestechresource.com\)](#).

1.1. Latest Intel Desktop Chipsets By Intel: Intel 5 Series Chipset And Intel X58 Express Chipset

Latest Intel Desktop Chipsets By Intel: Intel 5 Series Chipset And Intel X58 Express Chipset (Last Updated: 31Dec11)			
Chipset Series	Chipset	Intel HD Graphics Support	Socket (LGA)
Intel 5 Series Chipset (intel.com)	Intel Q57 Express Chipset (intel.com)	+	1156
	Intel H55 Express Chipset (intel.com)		
	Intel H57 Express Chipset (intel.com)		
	Intel P55 Express Chipset	-	
Intel X58 Express Chipset		-	1366

1.2. Latest Intel Desktop Chipsets By Intel: Intel 6 Series Chipset And Intel Z79 Express Chipset

Latest Intel Desktop Chipsets By Intel: Intel 6 Series Chipset And Intel X79 Express Chipset (Last Updated: 01May12)			
Chipset Series	Chipset	Intel HD Graphics Support	Socket (LGA)
Intel 6 Series Chipset (intel.com)	Intel B65 Express Chipset (intel.com)	+	1155
	Intel Q65 Express Chipset (intel.com)		
	Intel Q67 Express Chipset (intel.com)		
	Intel H61 Express Chipset (intel.com)		
	Intel H67 Express Chipset (intel.com)		
	Intel Z68 Express Chipset (intel.com)		
	Intel P67 Express Chipset (intel.com)	-	
Intel X79 Express Chipset (intel.com)		-	2011

1.3. Latest Intel Desktop Chipsets By Intel: Intel 7 Series Chipset

Latest Intel Desktop Chipsets By Intel: Intel 7 Series Chipset (Last Updated: 01May12)			
Chipset Series	Chipset	Intel HD Graphics Support	Socket (LGA)
Intel 7 Series Chipset (intel.com)	Intel B75 Express Chipset (intel.com)	+	1155
	Intel H77 Express Chipset (intel.com)		
	Intel Z75 Express Chipset (intel.com)		
	Intel Z77 Express Chipset (intel.com)		

2. Latest Intel Desktop Processors And Technologies: Including Previous Generation Intel Core Processors

i For the parent page to this page, see [Builder's Guide To Desktop Computer Components \(stevestechresource.com\)](http://www.stevestechresource.com).

2.1. Latest Intel Desktop Processors And Technologies: Previous Generation Intel Core Processors

Latest Intel Desktop Processors And Technologies: Previous Generation Intel Core Processors (Last Updated: 03Feb12)					
Processor/ Technology	Pentium G6900 Series	Prev Gen Core i3	Prev Gen Core i5	Prev Gen Core i7	Prev Gen Core i7 Extr
Code Name	Clarkdale	Clarkdale	Clarkdale/ Lynnfield	Lynnfield/ Bloomfield/ Gulftown	Bloomfield/ Gulftown
Socket (LGA)	1156	1156	1156	1156/ 1366/ 1366	1366
Cores	2	2	2/ 4	4/ 4/ 6	4/ 6
Intel Smart Cache	3MB	4MB	4MB/ 8MB	8MB/ 8MB/ 12MB	8MB/ 12MB
Bus Type	DMI	DMI	DMI	DMI/ QPI/ QPI	QPI
Lithography	32nm	32nm	32nm/ 45nm	45nm/ 45nm/ 32nm	45nm/ 32nm
Integrated Memory Controller	+	+	+	+	+
Integrated Intel HD Graphics	+	+	+/ -	-	-
Intel Quick Sync Video	-	-	-	-	-
Processor/ Technology	Pentium G6900 Series	Prev Gen Core i3	Prev Gen Core i5	Prev Gen Core i7	Prev Gen Core i7 Extr
Intel Turbo Boost	-	-	+	+	+
Intel vPro	-	-	+/-/ -	+/ -/ -	-/ -
Intel Hyper-Threading	-	+	+/ -	+	+
Intel Virtualization (VT-x)	+	+	+	+	+

Intel Virtualization For Directed I/O (VT-d)	-	-	+/-/ -	+/-/ -/ -	-
Intel Trusted Execution	-	-	+/-/ -	+/-/ -/ -	-
AES New Instructions	-	-	+/ -	-/ -/ +	-/ +
Intel 64	+	+	+	+	+
Idle States	+	+	+	+	+
Enhanced Intel SpeedStep	+	+	+	+	+
Thermal Monitoring	-	-	-	-	-
Intel Fast Memory Access	-	-	-	-	-
Intel Flex Memory Access	-	-	-	-	-
Execute Disable Bit	+	+	+	+	+

2.2. Latest Intel Desktop Processors And Technologies: 2nd Generation Intel Core Processors

Latest Intel Desktop Processors And Technologies: 2nd Generation Intel Core Processors (Last Updated: 01May12)						
Processor/ Technology	Celeron G400/G500 Series	Pentium G600/G800 Series	2nd Gen Core i3	2nd Gen Core i5	2nd Gen Core i7	2nd Gen Core i7 Extr
Code Name	Sandy Bridge	Sandy Bridge	Sandy Bridge	Sandy Bridge	Sandy Bridge/ Sandy Bridge-E	Sandy Bridge-E
Socket (LGA)	1155	1155	1155	1155	1155/ 2011	2011
Cores	1/2	2	2	2/4	4/ 6	6
Intel Smart Cache	1MB/2MB	3MB	3MB	3MB/6MB	8MB/ 10MB/12MB	15MB
Bus Type	DMI2	DMI2	DMI2	DMI2	DMI2	DMI2
Lithography	32nm	32nm	32nm	32nm	32nm	32nm
Integrated Memory Controller	+	+	+	+	+	+
Max Memory	32GB	32GB	32GB	32GB	32GB/ 64GB	64GB
Memory Channels	2	2	2	2	2/ 4	4
Max Memory Bandwidth	21.3GB/s	21.3GB/s	21.3GB/s	21.3GB/s	21.3GB/s/ 51.2GB/s	51.2GB/s
Integrated Intel HD Graphics	+	+	2000/3000	-/2000/3000	2000/3000/ -	-
Intel Quick Sync Video	-	-	+	+/-	+/ -	-
PCIe	2.0	2.0	2.0	2.0	2.0	2.0
Processor/ Technology	Celeron G400/G500 Series	Pentium G600/G800 Series	2nd Gen Core i3	2nd Gen Core i5	2nd Gen Core i7	2nd Gen Core i7 Extr
Intel Turbo Boost	-	-	-	2.0	2.0	2.0

Intel vPro	-	-	-	+/-	+/-/ -	-
Intel Hyper-Threading	-	-	+	+/-	+	+
Intel Virtualization (VT-x)	+	+	+	+	+	+
Intel Virtualization For Directed I/O (VT-d)	-	-	-	+/-	+/-/ +/-	-
Intel Trusted Execution	-	-	-	+/-	+/-/ -	-
AES New Instructions	-	-	-	+	+	+
Intel 64	+	+	+	+	+	+
Idle States	+	+	+	+	+	+
Enhanced Intel SpeedStep	+/-	+	+	+	+	+
Thermal Monitoring	+	+	+	+	+/ -	-
Intel Fast Memory Access	+	+	+	+	+/ -	-
Intel Flex Memory Access	+	+	+	+	+/ -	-
Execute Disable Bit	+	+	+	+	+	+

2.3. Latest Intel Desktop Processors And Technologies: 3rd Generation Intel Core Processors

Latest Intel Desktop Processors And Technologies: 3rd Generation Intel Core Processors (Last Updated: 01May12)		
Processor/ Technology	3rd Gen Core i5	3rd Gen Core i7
Code Name	Ivy Bridge	Ivy Bridge
Socket (LGA)	1155	1155
Cores	4	4
Intel Smart Cache	6MB	8MB
Bus Type	DMI2	DMI2
Lithography	22nm	22nm
Integrated Memory Controller	+	+
Max Memory	32GB	32GB
Memory Channels	2	2
Max Memory Bandwidth	25.6GB/s	25.6GB/s
Integrated Intel HD Graphics	2500/4000	4000
Intel Quick Sync Video	+	+
PCIe	3.0	3.0
Processor/ Technology	3rd Gen Core i5	3rd Gen Core i7
Intel Turbo Boost	2.0	2.0
Intel vPro	+/-	+/-
Intel Hyper-Threading	-	+
Intel Virtualization (VT-x)	+	+

Intel Virtualization For Directed I/O (VT-d)	+/-	+/-
Intel Trusted Execution	+/-	+/-
AES New Instructions	+	+
Intel 64	+	+
Intel Anti-Theft	+	+
Idle States	+	+
Enhanced Intel SpeedStep	+	+
Thermal Monitoring	+	+
Intel Fast Memory Access	+	+
Intel Flex Memory Access	+	+
Execute Disable Bit	+	+

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