



HP Intel Core i5-2310 processor 2.9 GHz 6 MB L3

Brand : HP

Product code: 657111-001

Product name : Intel Core i5-2310



Intel® Core™ i5-2310 Processor (6M Cache, up to 3.20 GHz)

HP Intel Core i5-2310. Processor family: Intel® Core™ i5, Processor socket: LGA 1155 (Socket H2), Processor lithography: 32 nm. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM. On-board graphics card model: Intel® HD Graphics 2000, On-board graphics card base frequency: 850 MHz, On-board graphics card dynamic frequency (max): 1100 MHz. Supported instruction sets: AVX, SSE4.1, SSE4.2. Intel® Virtualization Technology (Intel® VT): VT-x

Processor		Features	
Processor generation	2nd gen Intel® Core™ i5	Maximum number of PCI Express lanes	16
Processor model *	i5-2310	PCI Express slots version	2.0
Processor base frequency *	2.9 GHz	Supported instruction sets	AVX, SSE4.1, SSE4.2
Processor family *	Intel® Core™ i5	Embedded options available	✗
Processor cores *	4	Processor special features	
Processor socket *	LGA 1155 (Socket H2)	Intel® Hyper Threading Technology (Intel® HT Technology)	✗
Processor lithography *	32 nm	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor threads	4	Intel® Turbo Boost Technology	2.0
System bus rate	5 GT/s	Intel® Quick Sync Video Technology	✓
Processor operating modes *	64-bit	Intel® InTru™ 3D Technology	✓
Processor boost frequency	3.2 GHz	Intel® Wireless Display (Intel® WiDi)	✗
Processor cache	6 MB	Intel FDI Technology	✓
Processor cache type	L3	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Thermal Design Power (TDP)	95 W	Intel® Insider™	✓
Box *	✗	Intel Fast Memory Access	✓
Stepping	D2	Intel Flex Memory Access	✓
Memory bandwidth supported by processor (max)	21 GB/s	Intel® Smart Cache	✓
Memory		Intel® AES New Instructions (Intel® AES-NI)	✓
Maximum internal memory supported by processor	32 GB	Enhanced Intel SpeedStep Technology	✓
Memory types supported by processor	DDR3-SDRAM	Intel Trusted Execution Technology	✗
Memory clock speeds supported by processor	1066,1333 MHz	Intel VT-x with Extended Page Tables (EPT)	✓
Memory channels *	Dual-channel	Intel Virtualization Technology (VT-x)	✓
ECC	✗	Intel® vPro™ Platform Eligibility	✗
Graphics		Operational conditions	
On-board graphics card *	✓	Tcase	72.6 °C
On-board graphics card model *	Intel® HD Graphics 2000	Other features	
On-board graphics card base frequency	850 MHz	Intel® Virtualization Technology (Intel® VT)	VT-x
On-board graphics card dynamic frequency (max)	1100 MHz		
Number of displays supported (on-board graphics)	2		
Features			
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		

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