

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

Brand: HP Product code: 657111-001

Product name: Intel Core i5-2310

Thermal Monitoring Technologies

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