



HP Intel Core i5-3230M processor 2.6 GHz 3 MB L3 Tray

Brand : HP

Product code: 711903-001

Product name : Intel Core i5-3230M



Intel® Core™ i5-3230M Processor (3M Cache, up to 3.20 GHz)

HP Intel Core i5-3230M. Processor family: Intel® Core™ i5, Processor lithography: 22 nm, Package type: Tray. Memory channels: Dual-channel, Maximum internal memory supported by processor: 32 GB, Memory types supported by processor: DDR3-SDRAM, DDR3L-SDRAM. On-board graphics card model: Intel® HD Graphics 4000, On-board graphics card base frequency: 650 MHz, On-board graphics card dynamic frequency (max): 1100 MHz. PCI Express configurations: 1x16, 2x8, 1x8+2x4, Supported instruction sets: AVX, Graphics & IMC lithography: 22 nm. Intel® Virtualization Technology (Intel® VT): VT-x

Processor		Features	
Processor generation	3rd gen Intel® Core™ i5	Supported instruction sets	AVX
Processor model *	i5-3230M	Embedded options available	✗
Processor base frequency *	2.6 GHz	Graphics & IMC lithography	22 nm
Processor family *	Intel® Core™ i5	Processor special features	
Processor cores *	2	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor lithography *	22 nm	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor threads	4	Intel® Identity Protection Technology (Intel® IPT)	✓
System bus rate	5 GT/s	Intel® My WiFi Technology (Intel® MWT)	✓
Processor operating modes *	64-bit	Intel® Turbo Boost Technology	2.0
Processor boost frequency	3.2 GHz	Intel® Quick Sync Video Technology	✓
Processor cache	3 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	L3	Intel® Wireless Display (Intel® WiDi)	✓
Thermal Design Power (TDP)	35 W	Intel FDI Technology	✓
Package type *	Tray	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Stepping	L1	Intel® Insider™	✓
Memory bandwidth supported by processor (max)	25.6 GB/s	Intel Fast Memory Access	✓
Memory		Intel Flex Memory Access	✓
Maximum internal memory supported by processor	32 GB	Intel® Smart Cache	✓
Memory types supported by processor	DDR3-SDRAM, DDR3L-SDRAM	Enhanced Intel SpeedStep Technology	✓
Memory clock speeds supported by processor	1333,1600 MHz	Intel Trusted Execution Technology	✗
Memory channels *	Dual-channel	Intel VT-x with Extended Page Tables (EPT)	✓
ECC	✗	Intel Demand Based Switching	✗
Graphics		Intel® Secure Key	✓
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 4000	Intel® vPro™ Platform Eligibility	✗
On-board graphics card base frequency	650 MHz	Operational conditions	
On-board graphics card dynamic frequency (max)	1100 MHz	Tjunction	105 °C
Number of displays supported (on-board graphics)	3	Other features	
Features		Intel® Virtualization Technology (Intel® VT)	VT-x
Execute Disable Bit	✓		
Idle States	✓		
Thermal Monitoring Technologies	✓		
Integrated 4G WiMAX	✓		
PCI Express slots version	3.0		

Features

PCI Express configurations	1x16, 2x8, 1x8+2x4
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