



# HP Intel Core i7-620M processor 2.66 GHz 4 MB L3

Brand : HP

Product code: 587259-002

Product name : Intel Core i7-620M



Intel® Core™ i7-620M Processor (4M Cache, 2.66 GHz)

HP Intel Core i7-620M. Processor family: Intel® Core™ i7, Processor lithography: 32 nm, Processor model: i7-620M. Memory channels: Dual-channel, Maximum internal memory supported by processor: 8 GB, Memory types supported by processor: DDR3-SDRAM. On-board graphics card model: Intel® HD Graphics, On-board graphics card base frequency: 500 MHz, On-board graphics card dynamic frequency (max): 766 MHz. PCI Express configurations: 1x16, Number of Processing Die Transistors: 382 M, Processing Die size: 81 mm². Intel® Virtualization Technology (Intel® VT): VT-d, VT-x

Processor		Features	
Processor generation	Intel® Core™ i7	PCI Express slots version	2.0
Processor model *	i7-620M	PCI Express configurations	1x16
Processor base frequency *	2.66 GHz	Number of Processing Die Transistors	382 M
Processor family *	Intel® Core™ i7	Processing Die size	81 mm²
Processor cores *	2	Number of Graphics & IMC Die Transistors	177 M
Processor lithography *	32 nm	Graphics & IMC Die Size	114 mm²
Processor threads	4	Supported instruction sets	SSE4.1, SSE4.2
System bus rate	2.5 GT/s	Embedded options available	✓
Processor operating modes *	64-bit	Graphics & IMC lithography	45 nm
Processor boost frequency	3.333 GHz		
Processor cache	4 MB		
Processor cache type	L3		
Thermal Design Power (TDP)	35 W		
Box *	✗		
Memory bandwidth supported by processor (max)	17.1 GB/s		
Memory		Processor special features	
Maximum internal memory supported by processor	8 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory types supported by processor	DDR3-SDRAM	Intel® Turbo Boost Technology	✓
Memory clock speeds supported by processor	800,1066 MHz	Intel FDI Technology	✓
Memory channels *	Dual-channel	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
ECC	✓	Intel Fast Memory Access	✓
		Intel Flex Memory Access	✓
		Intel® Smart Cache	✓
		Intel® AES New Instructions (Intel® AES-NI)	✓
		Enhanced Intel SpeedStep Technology	✓
		Intel Trusted Execution Technology	✓
		Intel VT-x with Extended Page Tables (EPT)	✓
		Intel Virtualization Technology (VT-x)	✓
		Intel Virtualization Technology for Directed I/O (VT-d)	✓
		Intel® vPro™ Platform Eligibility	✓
Graphics		Operational conditions	
On-board graphics card *	✓	Tjunction	105 °C
On-board graphics card model *	Intel® HD Graphics		
On-board graphics card base frequency	500 MHz		
On-board graphics card dynamic frequency (max)	766 MHz		
Number of displays supported (on-board graphics)	2		
Features		Other features	
Execute Disable Bit	✓	Intel® Virtualization Technology (Intel® VT)	VT-d, VT-x
Idle States	✓		
Thermal Monitoring Technologies	✓		
Maximum number of PCI Express lanes	16		

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