



HP Intel Core i5-2540M processor 2,6 GHz 3 MB Smart Cache

Brand : HP

Product code: 631255-001

Product name : Intel Core i5-2540M

Intel Xeon i5-2540M, 3M Cache, 2.6 GHz, 5 GT/s QPI

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HP Intel Core i5-2540M. Processor family: Intel® Core™ i5, Processor lithography: 32 nm, Processor model: i5-2540M. Memory channels: Dual-channel, Maximum internal memory supported by processor: 16 GB, Memory types supported by processor: DDR3-SDRAM. On-board graphics card model: Intel® HD Graphics 3000, On-board graphics card outputs supported: DisplayPort, Embedded DisplayPort (eDP), HDMI, Serial Digital Video Out (SDVO), On-board graphics card base frequency: 650 MHz. Market segment: Mobile, PCI Express configurations: 1x16, 1x8+2x4, 2x8, Supported instruction sets: AVX. Compatibility: EliteBook 2560p

Processor		Features	
Processor generation	2nd gen Intel® Core™ i5	Maximum number of PCI Express lanes	16
Processor model *	i5-2540M	PCI Express slots version	2.0
Processor base frequency *	2,6 GHz	PCI Express configurations	1x16, 1x8+2x4, 2x8
Processor family *	Intel® Core™ i5	Supported instruction sets	AVX
Processor cores *	2	CPU configuration (max)	1
Component for	Laptop	Graphics & IMC lithography	32 nm
Processor lithography *	32 nm	Processor special features	
Processor series	Intel Core i5-2500 Mobile Series		
Processor threads	4		
System bus rate	5 GT/s		
Processor operating modes *	64-bit		
Processor boost frequency	3,3 GHz		
Processor cache	3 MB		
Processor cache type	Smart Cache		
Thermal Design Power (TDP)	35 W		
Stepping	J1		
Bus type	DMI		
Memory bandwidth supported by processor (max)	21,3 GB/s		
Memory		Intel® Anti-Theft Technology (Intel® AT)	✓
Maximum internal memory supported by processor	16 GB	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Memory types supported by processor	DDR3-SDRAM	Intel® Identity Protection Technology (Intel® IPT)	✓
Memory clock speeds supported by processor	1066,1333 MHz	Intel® My WiFi Technology (Intel® MWT)	✓
Memory channels *	Dual-channel	Intel® Turbo Boost Technology	2.0
ECC	✗	Intel® Quick Sync Video Technology	✓
Graphics		Intel® InTru™ 3D Technology	✓
		Intel® Wireless Display (Intel® WiDi)	✓
		Intel FDI Technology	✓
		Intel® Clear Video HD Technology (Intel® CVT HD)	✓
		Intel Fast Memory Access	✓
		Intel Flex Memory Access	✓
		Intel® AES New Instructions (Intel® AES-NI)	✓
		Enhanced Intel SpeedStep Technology	✓
		Intel Trusted Execution Technology	✓
		Intel VT-x with Extended Page Tables (EPT)	✓
		Intel Demand Based Switching	✗
		Intel 64	✓
On-board graphics card *	✓	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 3000	Intel Virtualization Technology for Directed I/O (VT-d)	✓
On-board graphics card outputs supported	DisplayPort, Embedded DisplayPort (eDP), HDMI, Serial Digital Video Out (SDVO)	Conflict-Free processor	✓
On-board graphics card base frequency	650 MHz		
On-board graphics card dynamic frequency (max)	1300 MHz		
Number of displays supported (on-board graphics)	2		

Features		Processor special features	
Execute Disable Bit	✓	Intel® vPro™ Platform Eligibility	✓
Idle States	✓	Operational conditions	
Thermal Monitoring Technologies	✓	Tjunction	100 °C
Integrated 4G WiMAX	✓	Other features	
Market segment	Mobile	Compatibility	EliteBook 2560p

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