

Intel Core i3-530 processor 2.93 GHz 4 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
CM80616003180AG

Product name : i3-530



Intel® Core™ i3-530 Processor
(4M Cache, 2.93 GHz)

Intel Core i3-530. Processor family: Intel® Core™ i3, Processor socket: LGA 1156 (Socket H), Processor lithography: 32 nm. 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, On-board graphics card base frequency: 733 MHz. Market segment: Desktop, PCI Express configurations: 1x16, 2x8, Number of Processing Die Transistors: 382 M. Package width: 81 mm, Package depth: 114 mm, Package height: 102 mm

Processor		Features	
Processor manufacturer *	Intel	Physical Address Extension (PAE)	36 bit
Processor generation	Intel® Core™ i3	PCI Express CEM revision	2.0
Processor model *	i3-530	Export Control Classification Number (ECCN)	3A991
Processor base frequency *	2.93 GHz	Commodity Classification Automated Tracking System (CCATS)	NA
Processor family *	Intel® Core™ i3	Processor special features	
Processor cores *	2	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor socket *	LGA 1156 (Socket H)	Intel® Turbo Boost Technology	✗
Processor lithography *	32 nm	Intel FDI Technology	✓
Processor series	Intel Core i3-500 Desktop Series	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel Dual Display Capable Technology	✓
System bus rate	2.5 GT/s	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor operating modes *	64-bit	Enhanced Intel SpeedStep Technology	✓
Processor cache	4 MB	Intel Trusted Execution Technology	✗
Processor cache type	Smart Cache	Intel Enhanced Halt State	✓
Thermal Design Power (TDP)	73 W	Intel VT-x with Extended Page Tables (EPT)	✓
Box *	✗	Intel Demand Based Switching	✗
Cooler included *	✗	Intel 64	✓
VID Voltage Range	0.65 - 1.4 V	Intel Virtualization Technology (VT-x)	✓
Generation	5th Generation	Conflict-Free processor	✗
Stepping	C2	Intel® vPro™ Platform Eligibility	✗
Bus type	DMI	Operational conditions	
CPU multiplier (bus/core ratio)	22	Maximum operating temperature	72.6 °C
Memory bandwidth supported by processor (max)	21 GB/s	Tcase	72.6 °C
Processor codename	Clarkdale	Technical details	
Processor code	SLBLR	Bus bandwidth	2.5
Processor ARK ID	46472	Bus type units	GT/s
Memory		Launch date	Q1'10
Maximum internal memory supported by processor	16 GB	Processor cache	4096 KB
Memory types supported by processor	DDR3-SDRAM	Product type	Processor
Memory channels *	Dual-channel	Status	Discontinued
Graphics		Maximum memory	16.38 GB
On-board graphics card *	✓	Processor brand name	Intel Core i3
On-board graphics card model *	Intel® HD Graphics		
On-board graphics card base frequency	733 MHz		
Number of displays supported (on-board graphics)	2		

Features		Technical details	
Execute Disable Bit	✓	Supported memory types	DDR3-SDRAM
Idle States	✓	Last change	63903513
Thermal Monitoring Technologies	✗	Product family	Previous Generation Intel Core i3 Processor
Market segment	Desktop	Bus speed	2.5 GT/s
Maximum number of PCI Express lanes	16	Logistics data	
PCI Express slots version	2.0	Harmonized System (HS) code	8542310001
PCI Express configurations	1x16, 2x8	Packaging data	
Number of Processing Die Transistors	382 M	Package width	81 mm
Processing Die size	81 mm ²	Package depth	114 mm
Number of Graphics & IMC Die Transistors	177 M	Package height	102 mm
Graphics & IMC Die Size	114 mm ²	Package weight	338 g
Supported instruction sets	SSE4.2	Package type	Retail box
CPU configuration (max)	1	Weight & dimensions	
Embedded options available	✗	Processor package size	37.5 x 37.5 mm
Graphics & IMC lithography	45 nm	Other features	
		Maximum internal memory	16.38 GB
		Maximum internal memory	16777 MB



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