

Intel Core i7-975 processor 3.33 GHz 8 MB Smart Cache

Brand : Intel

Product family: Core

Product code:
AT80601002274AA

Product name : i7-975



Intel® Core™ i7-975 Processor Extreme Edition

(8M Cache, 3.33 GHz, 6.40 GT/s Intel® QPI)

Intel Core i7-975. Processor family: Intel® Core™ i7, Processor socket: LGA 1366 (Socket B), Processor lithography: 45 nm. Memory channels: Triple-channel, Maximum internal memory supported by processor: 24 GB, Memory types supported by processor: DDR3-SDRAM. Market segment: Desktop, Number of Processing Die Transistors: 731 M, Processing Die size: 263 mm². Package type: Retail box. Processor package size: 42.5mm x 45mm

Processor		Features	
Processor manufacturer *	Intel	Physical Address Extension (PAE)	36 bit
Processor generation	Intel® Core™ i7	Export Control Classification Number (ECCN)	3A991.A.1
Processor model *	i7-975	Commodity Classification Automated Tracking System (CCATS)	NA
Processor base frequency *	3.33 GHz	Processor special features	
Processor family *	Intel® Core™ i7	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores *	4	Intel® Turbo Boost Technology	1.0
Processor socket *	LGA 1366 (Socket B)	Intel® AES New Instructions (Intel® AES-NI)	✗
Processor lithography *	45 nm	Enhanced Intel SpeedStep Technology	✓
Processor series	Intel Core i7-900 Desktop Extreme Edition Series	Intel Trusted Execution Technology	✗
Processor threads	8	Intel Enhanced Halt State	✓
System bus rate	6.4 GT/s	Intel VT-x with Extended Page Tables (EPT)	✓
Processor operating modes *	64-bit	Intel Demand Based Switching	✗
Processor boost frequency	3.6 GHz	Intel 64	✓
Processor cache	8 MB	Intel Virtualization Technology (VT-x)	✓
Processor cache type	Smart Cache	Operational conditions	
Thermal Design Power (TDP)	130 W	Maximum operating temperature	67.9 °C
Box *	✗	Tcase	67.9 °C
Cooler included *	✗	Technical details	
VID Voltage Range	0.8 - 1.375 V	Born on date	Q2'09
Generation	9th Generation	Bus bandwidth	6.4
Stepping	D0	Bus type units	GT/s
Bus type	QPI	Launch date	Q2'09
CPU multiplier (bus/core ratio)	25	Processor cache	8192 KB
Number of QPI links	1	Processor core voltage	0.800-1.375 V
Memory bandwidth supported by processor (max)	25.6 GB/s	Product name	Intel Core i7-975 Extreme Edition (8M Cache, 3.33 GHz, 6.40 GT/s Intel QPI)
Processor codename	Bloomfield	Product type	Processor
Processor code	SLBEQ	Status	Discontinued
Processor ARK ID	37153	Maximum memory	24 GB
Memory		Processor brand name	Intel Core i7 Extreme Edition Intel Core i7 Processor Extreme Edition
Maximum internal memory supported by processor	24 GB	Supported memory types	DDR3-SDRAM
Memory types supported by processor	DDR3-SDRAM	Last change	63903513
Memory channels *	Triple-channel		
ECC	✗		
Graphics			
On-board graphics card *	✗		
Features			
Execute Disable Bit	✓		

Features		Technical details	
Idle States	✓	Product family	Previous Generation Intel Core i7 Extreme Processor
Thermal Monitoring Technologies	✗	Bus speed	6.4 GT/s
Market segment	Desktop	Logistics data	
Number of Processing Die Transistors	731 M	Harmonized System (HS) code	8542310001
Processing Die size	263 mm ²	Packaging data	
Number of Graphics & IMC Die Transistors	731 M	Package type	Retail box
Supported instruction sets	SSE4.2	Weight & dimensions	
Bandwidth	25600 MB/s	Processor package size	42.5mm x 45mm
CPU configuration (max)	1	Other features	
Embedded options available	✗	Maximum internal memory	24 GB
		Maximum internal memory	24576 MB
		Cache memory	8 MB



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