Intel Core i3-3220 specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	Intel Core i3
Model number ?	**i3-3220**
CPU part numbers	**CM8063701137502** is an OEM/tray microprocessor
	CM8063701246900 is an OEM/tray microprocessor
	CM8063701247200 is an OEM/tray microprocessor
	BX80637I33220 is a boxed processor with fan and heatsink (English version)
	BXC80637I33220 is a boxed processor with fan and heatsink (Chinese version)
Frequency ?	**3300 MHz**
Bus speed ?	**5 GT/s DMI**
Clock multiplier ?	**33**
Package	1155-land Flip-Chip Land Grid Array
Socket	**Socket 1155 / H2 / LGA1155**
Size	1.48" x 1.48" / 3.75cm x 3.75cm
Introduction date	September 2, 2012
End-of-Life date	Last order date for consumer processors is Jun 26, 2015
	Last shipment date for consumer tray processors is Dec 04, 2015
Price at introduction	$117 (OEM)
	$125 (box)

S-spec numbers

	ES/QS processors				Production processors
Part number	**QC8H**	**QCC0**	**QCFW**	**QCKW**	**SR0RG**
BX80637I33220					+
BXC80637I33220					+
CM8063701137502	+				+
CM8063701246900			+	+	
CM8063701247200		+			

Architecture / Microarchitecture

Microarchitecture	Ivy Bridge
Processor core ?	Ivy Bridge
Core steppings ?	E1 (QCKW)
	L1 (QC8H, SR0RG)
	N0 (QCC0)
Manufacturing process	0.022 micron
Data width	**64 bit**
The number of cores	**2**
The number of threads	**4**
Floating Point Unit	Integrated
Level 1 cache size ?	2 x 32 KB 8-way set associative instruction caches
	2 x 32 KB 8-way set associative data caches

Level 2 cache size ?	**2 x 256 KB 8-way set associative caches**
Level 3 cache size	**3 MB 12-way set associative shared cache**
Physical memory	32 GB
Multiprocessing	Uniprocessor
Features	- MMX instructions - SSE / Streaming SIMD Extensions - SSE2 / Streaming SIMD Extensions 2 - SSE3 / Streaming SIMD Extensions 3 - SSSE3 / Supplemental Streaming SIMD Extensions 3 - SSE4 / SSE4.1 + SSE4.2 / Streaming SIMD Extensions 4 ? - AVX / Advanced Vector Extensions - F16C / 16-bit Floating-Point conversion instructions - EM64T / Extended Memory 64 technology / Intel 64 ? - NX / XD / Execute disable bit ? - HT / Hyper-Threading technology ? - VT-x / Virtualization technology ?
Low power features	Enhanced SpeedStep technology ?

Integrated peripherals / components

Integrated graphics	GPU Type: HD 2500 Base frequency (MHz): 650 Maximum frequency (MHz): 1050 The number of supported displays: 3
Memory controller	The number of controllers: 1 Memory channels: 2 Supported memory: DDR3-1333, DDR3-1600 Maximum memory bandwidth (GB/s): 25.6
Other peripherals	- Direct Media Interface 2.0 - PCI Express 2.0 interface

Electrical / Thermal parameters

Maximum operating temperature ?	65.3°C
Thermal Design Power ?	**55 Watt**

Notes on Intel Core i3-3220

- Also ships as an embedded microprocessor
- The processor has the following security, data protection and/or software features: Intel Identity Protection technology and Anti-Theft technology.
- The CPU is compatible with DirectX 11.0, OpenGL 4.0 and OpenCL 1.2 APIs.
- The graphics unit has the following software features enabled: Intel Quick Sync Video, Wireless Display, Insider, InTru 3D technology and Clear Video HD technology.