

Intel Core 2 Duo E7500 specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	Intel Core 2 Duo
Model number ?	E7500
CPU part numbers	AT80571PH0773M is an OEM/tray microprocessor AT80571PH0773ML is an OEM/tray microprocessor BX80571E7500 is a boxed processor with fan and heatsink (English version) BXC80571E7500 is a boxed processor with fan and heatsink (Chinese version)
Frequency ?	2933 MHz
Bus speed ?	1066 MHz
Clock multiplier ?	11
Package	775-land Flip-Chip Land Grid Array (FC-LGA8) 1.48" x 1.48" (3.75 cm x 3.75 cm)
Socket	Socket 775 / LGA775 / T
Introduction date	Jan 18, 2009
Price at introduction	\$133

S-spec numbers

Part number	ES/QS processors	Production processors	
	QJLT	SLB9Z	SLGTE
AT80571PH0773M	+	+	
AT80571PH0773ML			+
BX80571E7500		+	+
BXC80571E7500		+	+

Architecture / Microarchitecture

Microarchitecture	Core
Processor core ?	Wolfdale-3M
Core stepping ?	R0 (QJLT, SLB9Z, SLGTE)
CPUID	1067A (QJLT, SLB9Z, SLGTE)
Manufacturing process	0.045 micron
Data width	64 bit
The number of cores	2
The number of threads	2
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 ?	shared 3 MB 12-way set associative cache
Multiprocessing	Uniprocessor
Features	<ul style="list-style-type: none">▪ MMX instructions▪ SSE / Streaming SIMD Extensions▪ SSE2 / Streaming SIMD Extensions 2▪ SSE3 / Streaming SIMD Extensions 3

- SSSE3 / Supplemental Streaming SIMD Extensions 3
- SSE4.1 / Streaming SIMD Extensions 4.1 ?
- EM64T / Extended Memory 64 technology / Intel 64 ?
- NX / XD / Execute disable bit ?
- VT / Virtualization technology ?

Low power features

- Enhanced SpeedStep technology ?
- Stop Grant state ?
- Halt state
- Extended Halt state
- Extended Stop Grant State
- Sleep state ?
- Deep Sleep state ?
- Deeper Sleep state ?

Integrated peripherals / components

Integrated graphics None

Electrical / Thermal parameters

V core ? 0.85V - 1.3625V

Minimum/Maximum operating
temperature ? 5°C - 74.1°C

Minimum/Maximum power
dissipation ? 6 Watt (TDP in Deeper Sleep mode) / 98.89 Watt

Thermal Design Power ? 65 Watt

Notes on Intel Core 2 Duo E7500

- Binary compatible with 32-bit x86 software
- Bus frequency is 266 MHz. Because the processor uses Quad Data Rate bus the effective bus speed is 1066 MHz
- Part AT80571PH0773M does not support Virtualization technology
- Part AT80571PH0773ML supports Virtualization technology
- BXC80571E7500 is a Chinese version