

Intel Core 2 Duo E7400 specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	Intel Core 2 Duo
Model number ?	E7400
CPU part numbers	AT80571PH0723M is an OEM/tray microprocessor AT80571PH0723ML is an OEM/tray microprocessor BX80571E7400 is a boxed processor with fan and heatsink (English version) BXC80571E7400 is a boxed processor with fan and heatsink (Chinese version)
Frequency ?	2800 MHz
Bus speed ?	1066 MHz
Clock multiplier ?	10.5
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
Weight	0.8oz / 23.3g
Introduction date	Oct 19, 2008
End-of-Life date	Last order date for consumer processors is August 26, 2011 Last shipment date for consumer tray processors is February 10, 2012
Price at introduction	\$133

S-spec numbers

Part number	Production processors		
	SLB9Y	SLGQ8	SLGW3
AT80571PH0723M	+	+	
AT80571PH0723ML			+
BX80571E7400	+	+	+
BXC80571E7400	+		+

Architecture / Microarchitecture

Microarchitecture	Core
Processor core ?	Wolfdale-3M
Core stepping ?	R0 (SLB9Y, SLGQ8, SLGW3)
CPUID	1067A (SLB9Y, SLGQ8, SLGW3)
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	<ul style="list-style-type: none"> ▪ 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
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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 E7400

- Also available as an embedded processor
- 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 AT80571PH0723M does not support Virtualization technology
- Part AT80571PH0723ML supports Virtualization technology
- BXC80571E7400 is a Chinese version