

Intel Pentium E2160 specifications

General information

Type	CPU / Microprocessor
Market segment	Desktop
Family	Intel Pentium Dual-Core
Model number ?	E2160
CPU part numbers	HH80557PG0331M is an OEM/tray microprocessor BX80557E2160 is a boxed processor with fan and heatsink (English version) BXC80557E2160 is a boxed processor with fan and heatsink (Chinese version)
Frequency ?	1800 MHz
Bus speed ?	800 MHz
Clock multiplier ?	9
Package	775-land Flip Chip Land Grid Array (FC-LGA6) 1.48" x 1.48" (3.75 cm x 3.75 cm)
Socket	Socket 775 / LGA775 / T
Introduction date	May 2007

S-spec numbers

Part number	ES/QS processors			Production processors				
	QYGD	QYRG	QYRJ	SLA3H	SLA8Z	SLA92	SLA9Z	SLASX
BX80557E2160				+	+			
BXC80557E2160				+	+			
HH80557PG0331M	+	+	+	+	+	+	+	+

Architecture / Microarchitecture

Microarchitecture	Core
Processor core ?	Allendale
Core steppings ?	G0 (SLA9Z, SLASX) L2 (SLA3H) M0 (QYRG, SLA8Z)
CPUIDs	6F2 (SLA3H) 6FB (SLA9Z) 6FD (QYRG, SLA8Z)
Manufacturing process	0.065 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 ?	1 MB 4-way set associative shared cache
Cache latency	3 (L1 cache) 14 (L2 cache)
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
- EM64T / Extended Memory 64 technology / Intel 64 ?
- NX / XD / Execute disable bit ?

Low power features

- Halt mode
- Extended Halt mode
- Stop Grant mode ?
- Enhanced SpeedStep technology ?

Integrated peripherals / components

Integrated graphics None

Electrical / Thermal parameters

V core ?	0.85V - 1.5V
Minimum/Maximum operating temperature ?	5°C - 61.4°C (Stepping L2, CPUID 6F2h) 5°C - 73.3°C (Stepping M0, CPUID 6FDh)
Minimum/Maximum power dissipation ?	8 Watt (TDP for Enhanced HALT mode) / 111.15 Watt

Thermal Design Power ? 65 Watt

Notes on Intel Pentium E2160

- Actual bus frequency is 200 MHz. Because the processor uses Quad Data Rate bus the effective bus speed is 800 MHz
- BXC80557E2160 is a Chinese version