

AIDA64 Extreme Edition

Version	AIDA64 v2.00.1758 Beta
Benchmark Module	2.7.391-x32
Homepage	http://www.aida64.com/
Report Type	Report Wizard
Computer	ASUSK42JC
Generator	asm
Operating System	Microsoft Windows 7 Ultimate 6.1.7601 (Win7 RTM)
Date	2016-08-15
Time	12:28

CPU

CPU Properties:

CPU Type	Mobile DualCore Intel Pentium P6200, 2133 MHz (16 x 133)
CPU Alias	Arrandale-3M
CPU Stepping	K0
Instruction Set	x86, x86-64, MMX, SSE, SSE2, SSE3, SSSE3
Original Clock	2133 MHz
Min / Max CPU Multiplier	7x / 63x
Engineering Sample	No
L1 Code Cache	32 KB per core
L1 Data Cache	32 KB per core
L2 Cache	256 KB per core (On-Die, ECC, Full-Speed)
L3 Cache	3 MB (On-Die, ECC, Full-Speed)

Multi CPU:

Motherboard ID	Notebook _ASUS_
CPU #1	Intel(R) Pentium(R) CPU P6200 @ 2.13GHz, 2128 MHz
CPU #2	Intel(R) Pentium(R) CPU P6200 @ 2.13GHz, 2128 MHz

CPU Physical Info:

Package Type	988 Pin rPGA
Package Size	37.5 mm x 37.5 mm
Transistors	382 million
Process Technology	32 nm, CMOS, Cu, High-K + Metal Gate
Die Size	81 mm2
GMCH: Transistors	177 million
GMCH: Process Technology	45 nm, CMOS, Cu, High-K + Metal Gate
GMCH: Die Size	114 mm2
Typical Power	25 W

CPU Manufacturer:

Company Name	Intel Corporation
Product Information	http://ark.intel.com/search.aspx?q=Intel Pentium P6200
Driver Update	http://www.aida64.com/driver-updates

CPU Utilization:

CPU #1 / Core #1	66 %
CPU #1 / Core #2	0 %

CPUID**CPUID Properties:**

CPUID Manufacturer	GenuineIntel
CPUID CPU Name	Intel(R) Pentium(R) CPU P6200 @ 2.13GHz
CPUID Revision	00020655h
IA Brand ID	00h (Unknown)
Platform ID	27h / MC 10h (rPGA988A)
Microcode Update Revision	2
HTT / CMP Units	0 / 2
Tjmax Temperature	90 °C (194 °F)
CPU Thermal Design Power	25 W
CPU Thermal Design Current	25 A

Instruction Set:

64-bit x86 Extension (AMD64, Intel64)	Supported
AMD 3DNow!	Not Supported
AMD 3DNow! Professional	Not Supported
AMD 3DNowPrefetch	Not Supported
AMD Enhanced 3DNow!	Supported
AMD Extended MMX	Not Supported
AMD FMA4	Supported
AMD MisAligned SSE	Not Supported
AMD SSE4A	Not Supported
AMD XOP	Not Supported

	Supported
Cyrix Extended	Not
MMX	Supported
Enhanced REP	Not
MOVSB/STOSB	Supported
Float-16	Not
Conversion	Supported
Instructions	
IA-64	Not
	Supported
IA BMI1	Not
	Supported
IA BMI2	Not
	Supported
IA MMX	Supported
IA SSE	Supported
IA SSE2	Supported
IA SSE3	Supported
IA Supplemental	Supported
SSE3	
IA SSE4.1	Not
	Supported
IA SSE4.2	Not
	Supported
IA AVX	Not
	Supported
IA AVX2	Not
	Supported
IA FMA	Not
	Supported
IA AES	Not
Extensions	Supported
VIA Alternate	Not
Instruction Set	Supported
CLFLUSH	Supported
Instruction	
CMPXCHG8B	Supported
Instruction	
CMPXCHG16B	Supported
Instruction	
Conditional	
Move	Supported
Instruction	
INVPID	Not
Instruction	Supported
LZCNT	Not
Instruction	Supported
MONITOR /	
MWAIT	Supported
Instruction	
MOVBE	Not
Instruction	Supported
PCLMULQDQ	Not
Instruction	Supported
POPCNT	Supported
Instruction	
RDFSBASE /	
RDGSBASE /	

WRFSBASE / WRGSBASE Instruction	Not Supported
RDRAND Instruction	Not Supported
RDTSCP Instruction	Supported
SKINIT / STGI Instruction	Not Supported
SYSCALL / SYSRET Instruction	Not Supported
SYSENTER / SYSEXIT Instruction	Supported
Trailing Bit Manipulation Instructions	Not Supported
VIA FEMMS Instruction	Not Supported

Security Features:

Advanced Cryptography Engine (ACE)	Not Supported
Advanced Cryptography Engine 2 (ACE2)	Not Supported
Data Execution Prevention (DEP, NX, EDB)	Supported
Hardware Random Number Generator (RNG)	Not Supported
Hardware Random Number Generator 2 (RNG2)	Not Supported
PadLock Hash Engine (PHE)	Not Supported
PadLock Hash Engine 2 (PHE2)	Not Supported
PadLock Montgomery Multiplier (PMM)	Not Supported
Processor Serial Number (PSN)	Not Supported

Power Management Features:

Application Power Management (APM)	Not Supported
Automatic Clock Control	Supported

Core C6 State (CC6)	Not Supported
Digital Thermometer	Supported
Dynamic FSB Frequency Switching	Not Supported
Enhanced Halt State (C1E)	Supported, Enabled
Enhanced SpeedStep Technology (EIST, ESS)	Supported, Enabled
Frequency ID Control	Not Supported
Hardware P-State Control	Not Supported
LongRun	Not Supported
LongRun Table Interface	Not Supported
Overstress	Not Supported
Package C6 State (PC6)	Not Supported
Parallax	Not Supported
PowerSaver 1.0	Not Supported
PowerSaver 2.0	Not Supported
PowerSaver 3.0	Not Supported
Processor Duty Cycle Control	Supported
Software Thermal Control	Not Supported
Temperature Sensing Diode	Not Supported
Thermal Monitor 1	Supported
Thermal Monitor 2	Supported
Thermal Monitor 3	Not Supported
Thermal Monitoring	Not Supported
Thermal Trip	Not Supported
Voltage ID Control	Not Supported

CPUID Features:

1 GB Page Size	Not Supported
36-bit Page Size	Supported

Extension	
Address Region Registers (ARR)	Not Supported
Core Performance Boost (CPB)	Not Supported
CPL Qualified Debug Store	Supported
Debug Trace Store	Supported
Debugging Extension	Supported
Direct Cache Access	Not Supported
Dynamic Acceleration Technology (IDA)	Not Supported
Fast Save & Restore	Supported
Hyper-Threading Technology (HTT)	Not Supported
Instruction Based Sampling	Not Supported
Invariant Time Stamp Counter	Supported
L1 Context ID	Not Supported
Lightweight Profiling	Not Supported
Local APIC On Chip	Supported
Machine Check Architecture (MCA)	Supported
Machine Check Exception (MCE)	Supported
Memory Configuration Registers (MCR)	Not Supported
Memory Type Range Registers (MTRR)	Supported
Model Specific Registers (MSR)	Supported
Nested Paging	Not Supported
Page Attribute Table (PAT)	Supported
Page Global Extension	Supported
Page Size Extension	Supported

(PSE)	
Pending Break Event	Supported
Physical Address Extension (PAE)	Supported
Safer Mode Extensions (SMX)	Not Supported
Secure Virtual Machine Extensions (Pacifica)	Not Supported
Self-Snoop	Supported
Supervisor Mode Execution Protection (SMEP)	Not Supported
Time Stamp Counter (TSC)	Supported
Turbo Boost	Not Supported
Virtual Machine Extensions (Vanderpool)	Not Supported
Virtual Mode Extension	Supported
Watchdog Timer	Not Supported
x2APIC	Not Supported
XGETBV / XSETBV OS Enabled	Not Supported
XSAVE / XRSTOR / XSETBV / XGETBV Extended States	Not Supported

Motherboard

Motherboard Properties:

Motherboard ID	63-0100-000001-00101111-103009-Chipset\$0AAAAA000_BIOS DATE: 10/30/09 15:13:23 VER: 08.00.10
Motherboard Name	Asus K42JC Series Notebook

Front Side Bus Properties:

Bus Type	Intel QPI
Real Clock	133 MHz
Effective Clock	133 MHz
QPI Clock	2395 MHz

Memory Bus Properties:

Bus Type	Dual DDR3 SDRAM
Bus Width	128-bit
DRAM:FSB Ratio	16:4
Real Clock	533 MHz (DDR)
Effective Clock	1066 MHz
Bandwidth	17064 MB/s

Chipset Bus Properties:

Bus Type	Intel Direct Media Interface
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Motherboard Manufacturer:

Company Name	ASUSTeK Computer Inc.
Product Information	http://www.asus.com/Motherboards
BIOS Download	http://support.asus.com/download/download.aspx?SLanguage=en-us
Driver Update	http://www.aida64.com/driver-updates
BIOS Upgrades	http://www.aida64.com/bios-updates

Memory

Physical Memory:

Total	2732 MB
Used	1387 MB
Free	1345 MB
Utilization	51 %

Swap Space:

Total	5463 MB
Used	1724 MB
Free	3739 MB
Utilization	32 %

Virtual Memory:

Total	8195 MB
Used	3111 MB
Free	5084 MB
Utilization	38 %

Paging File:

Paging File	C:\pagefile.sys
Current Size	2732 MB
Current / Peak Usage	241 MB / 247 MB
Utilization	9 %

Physical Address Extension (PAE):

Supported by Operating System	Yes
Supported by CPU	Yes
Active	Yes

SPD**[DIMM1: Micron 4KTF25664HZ-1G6E1]****Memory Module Properties:**

Module Name	Micron 4KTF25664HZ-1G6E1
Serial Number	E1A57DF4h (4101875169)
Manufacture Date	Week 5 / 2013
Module Size	2 GB (1 rank, 8 banks)
Module Type	SO-DIMM
Memory Type	DDR3 SDRAM
Memory Speed	DDR3-1600 (800 MHz)
Module Width	64 bit
Module Voltage	1.5 V
Error Detection Method	None
DRAM Manufacturer	Micron

Memory Timings:

@ 761 MHz	10-10-10-27 (CL-RCD-RP-RAS) / 37-199-6-12-6-6 (RC-RFC-RRD-WR-WTR-RTP)
@ 685 MHz	9-9-9-24 (CL-RCD-RP-RAS) / 33-179-6-11-6-6 (RC-RFC-RRD-WR-WTR-RTP)
@ 609 MHz	8-8-8-22 (CL-RCD-RP-RAS) / 30-159-5-10-5-5 (RC-RFC-RRD-WR-WTR-RTP)
@ 533 MHz	7-7-7-19 (CL-RCD-RP-RAS) / 26-139-4-8-4-4 (RC-RFC-RRD-WR-WTR-RTP)
@ 457 MHz	6-6-6-16 (CL-RCD-RP-RAS) / 22-119-4-7-4-4 (RC-RFC-RRD-WR-WTR-RTP)
@ 380 MHz	5-5-5-14 (CL-RCD-RP-RAS) / 19-100-3-6-3-3 (RC-RFC-RRD-WR-WTR-RTP)

Memory Module Features:

Auto Self Refresh	Supported
Extended Temperature Range	Supported
Extended Temperature Refresh Rate	Not Supported
On-Die	

Thermal Sensor Readout	Not Supported
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Memory Module Manufacturer:

Company Name	Micron Technology, Inc.
Product Information	http://www.micron.com/products/modules

[DIMM3: Elpida EBJ21UE8BFU0-DJ-F]**Memory Module Properties:**

Module Name	Elpida EBJ21UE8BFU0-DJ-F
Serial Number	AF440559h (1493517487)
Manufacture Date	Week 44 / 2010
Module Size	2 GB (2 ranks, 8 banks)
Module Type	SO-DIMM
Memory Type	DDR3 SDRAM
Memory Speed	DDR3-1333 (667 MHz)
Module Width	64 bit
Module Voltage	1.5 V
Error Detection Method	None
DRAM Manufacturer	Elpida

Memory Timings:

@ 609 MHz	8-8-8-22 (CL-RCD-RP-RAS) / 30-68-4-10-5-5 (RC-RFC-RRD-WR-WTR-RTP)
@ 533 MHz	7-7-7-20 (CL-RCD-RP-RAS) / 27-59-4-8-4-4 (RC-RFC-RRD-WR-WTR-RTP)
@ 457 MHz	6-6-6-17 (CL-RCD-RP-RAS) / 23-51-3-7-4-4 (RC-RFC-RRD-WR-WTR-RTP)
@ 380 MHz	5-5-5-14 (CL-RCD-RP-RAS) / 19-42-3-6-3-3 (RC-RFC-RRD-WR-WTR-RTP)

Memory Module Features:

Auto Self Refresh	Not Supported
Extended Temperature Range	Supported
Extended Temperature Refresh Rate	Not Supported
On-Die Thermal Sensor Readout	Not Supported

Memory Module Manufacturer:

Company Name Elpida Memory, Inc.
 Product Information <http://www.elpida.com/en/products/>

Chipset

[North Bridge: Intel Ironlake-M IMC]

North Bridge Properties:

North Bridge Intel Ironlake-M IMC
 Supported Memory Types DDR3-800, DDR3-1066 SDRAM
 Maximum Memory Amount 8 GB
 Revision 18
 Process Technology 45 nm

Memory Controller:

Type Dual Channel (128-bit)
 Active Mode Dual Channel (128-bit)

Memory Timings:

CAS Latency (CL) 7T
 RAS To CAS Delay (tRCD) 7T
 RAS Precharge (tRP) 7T
 RAS Active Time (tRAS) 20T
 Row Refresh Cycle Time (tRFC) 140T
 Command Rate (CR) 1T
 RAS To RAS Delay (tRRD) 4T
 Write Recovery Time (tWR) 18T
 Read To Read Delay (tRTR) Same Rank: 4T, Different Rank: 7T
 Read To Write Delay 8T

(tRTW)
 Write To
 Read Delay Same Rank: 14T, Different Rank: 6T
 (tWTR)
 Write To
 Write Delay Same Rank: 4T, Different Rank: 7T
 (tWTW)
 Read To
 Precharge Delay 5T
 (tRTP)
 Write To
 Precharge Delay 18T
 (tWTP)
 Precharge To
 Precharge Delay 1T
 (tPTP)
 Refresh
 Period 4160T
 (tREF)
 DRAM Read
 ODT 3T
 DRAM Write
 ODT 7T
 MCH Read
 ODT 10T
 Read Delay
 Phase +3T
 Adjust
 DIMM1 Clock
 Fine Delay 0T
 DIMM2 Clock
 Fine Delay 0T
 DIMM3 Clock
 Fine Delay 0T
 DIMM4 Clock
 Fine Delay 0T

Error Correction:

ECC Not Supported
 ChipKill Not Supported
 ECC Not Supported
 RAID Not Supported
 ECC Not Supported
 Scrubbing Not Supported

Memory Slots:

DRAM Slot #1 2 GB (DDR3 SDRAM)
 DRAM Slot #2 2 GB (DDR3 SDRAM)

Integrated Graphics Controller:

Graphics
 Controller Intel HD Graphics
 Type

Graphics
Controller Enabled
Status
Graphics
Frame Buffer 32 MB
Size

Chipset Manufacturer:

Company
Name Intel Corporation
Product
Information <http://www.intel.com/products/chipsets>
Driver
Download <http://support.intel.com/support/chipsets>
BIOS
Upgrades <http://www.aida64.com/bios-updates>
Driver
Update <http://www.aida64.com/driver-updates>

[South Bridge: Intel Ibex Peak-M HM55]**South Bridge Properties:**

South
Bridge Intel Ibex Peak-M HM55
Revision /
Stepping 06 / B3
Package
Type 1071 Pin FCBGA
Package
Size 27 mm x 25 mm
Process
Technology 65 nm
Core
Voltage 1.05 V
TDP 3.5 W

High Definition Audio:

Codec
Name Realtek ALC269
Codec ID 10EC0269h / 10431033h
Codec
Revision 1001h
Codec
Type Audio

High Definition Audio:

Codec
Name Intel Ibex Peak HDMI
Codec ID 80862804h / 80860101h
Codec
Revision 1000h
Codec
Type Audio

PCI Express Controller:

PCI-E 2.0 x1

port #1	Empty
PCI-E 2.0 x1 port #2	In Use @ x1 (Ralink Bluetooth PCIe Adapter [1814-3298] [NoDB], Ralink RT3290 802.11bgn Wi-Fi Adapter [1814-3290] [NoDB])
PCI-E 2.0 x1 port #3	Empty
PCI-E 2.0 x1 port #6	In Use @ x1 (JMicron JMB38x SD Card Host Controller, JMicron JMB38x SD/MMC Card Host Controller)

Chipset Manufacturer:

Company Name	Intel Corporation
Product Information	http://www.intel.com/products/chipsets
Driver Download	http://support.intel.com/support/chipsets
BIOS Upgrades	http://www.aida64.com/bios-updates
Driver Update	http://www.aida64.com/driver-updates

BIOS

BIOS Properties:

BIOS Type	AMI EFI
BIOS Version	K42Jc.216
System BIOS Date	09/26/2011
Video BIOS Date	09/21/10

BIOS Manufacturer:

Company Name	American Megatrends Inc.
Product Information	http://www.ami.com/amibios
BIOS Upgrades	http://www.aida64.com/bios-updates