# AMD Athlon XP 2000+ - AXDA2000DUT3C



## AMD Athlon XP 2000+ (1.6V) specifications

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### General information

| | |
|---|---|
| Type | CPU / Microprocessor |
| Market segment | Desktop |
| Family | AMD Athlon XP |
| Model number | 2000+ |
| CPU part number | AXDA2000DUT3C is an OEM/tray microprocessor |
| Stepping codes | AIRGA AIRGB AIUCB AIUCA AIUMB AIXHB AIXTB AIXWB AIXSB AIXSA AIXSB AIXUB AIXWB AIXUB AIUSB AIUSA AIUSA AIWUB |
| **Frequency** | **2000+ (rated)**<br>**1.667 GHz / 1667 MHz (real)** |
| **Bus speed** | **266 MHz** |
| **Clock multiplier** | **12.5** |
| Package | 453-pin organic PGA<br>1.95" x 1.95" (4.95 cm x 4.95 cm) |
| AMD Package numbers | 27291<br>27648 |
| **Socket** | **Socket 462 / Socket A** |

### Architecture / Microarchitecture

| | |
|---|---|
| Instruction set | x86 |
| Microarchitecture | K7 |
| Processor core | Thoroughbred (Model 8) |
| CPUIDs | 680<br>681 |
| Manufacturing process | 0.13 micron |
| Die | 80.85mm² (CPUID 680)<br>67.35mm² (CPUID 680 / without L2 cache)<br>84.66mm² (CPUID 681)<br>71.12mm² (CPUID 681 / without L2 cache)<br>86.97mm² (CPUID 682)<br>73.43mm² (CPUID 682 / without L2 cache) |
| Data width | 32 bit |
| **The number of CPU cores** | **1** |
| **The number of threads** | **1** |
| Floating Point Unit | Integrated |
| Level 1 cache size | 64 KB 2-way set associative instruction cache<br>64 KB 2-way set associative data cache |
| **Level 2 cache size** | **Full-speed on-die 256 KB 16-way set associative cache** |
| Multiprocessing | Uniprocessor |
| Extensions & Technologies | • MMX instructions<br>• Enhanced MMX<br>• 3DNow!(tm) ready<br>• Extensions to 3DNow!<br>• SSE / Streaming SIMD Extensions |
| Low power features | • Halt state<br>• Stop Grant states<br>• Sleep state<br>• Probe state |

### Integrated Graphics Processing Unit

None

### Electrical / Thermal parameters

| | |
|---|---|
| V core | 1.6V |
| Minimum/Maximum operating temperature | 0°C - 90°C |
| Typical/Maximum power dissipation | 54.7 Watt / 60.3 Watt |

### Notes on AMD Athlon XP 2000+ (1.6V)

- Actual bus frequency is 133 MHz. Because the processor uses Double Data Rate bus the effective bus speed is 266 MHz.

JUMP TO
- Specifications
- Compare 2 CPUs
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- Related CPUs
- Pictures
- Comments

Compare AMD 2000+ (1.6V) specs with one or more CPUs: Add to Compare

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Find all CPUs with the following features:
- Any frequency
- Any bus speed
- Same family
- Same socket
- Same CPU core

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## Detailed side-by-side comparison

If you want to compare in detail the AMD 2000+ (1.6V) with any other processor from our CPU database please select desired processor using one of the following methods:

- Browse CPUs by: Family Socket Codename Microarchitecture
- Find processor by its name and/or partial specifications:

Compare

You can specify any of the following: manufacturer name, family name, model number; part number; core name, microarchitecture, manufacturing process, socket name, operating frequency, bus speed, the number of cores and threads, cache size, TDP and CPU type. Here are some examples of searches: 2000+, AXDA2000DUT3C, AMD Athlon XP 1.667GHz, Thoroughbred Socket 462, K7 1 core 1 thread, 0.13 micron 0.25 MB noDPQ

POPULAR ATHLON XP 2000+ (1.6V) COMPARISONS

| | |
|---|---|
| vs 2200+ | vs 2600+ |
| vs 2400+ | vs 2800+ |

## FAQ

**Q:** Is it possible to upgrade my AMD 2000+ (1.6V) CPU?

**A:** Probably yes. Processor compatibility is determined by your motherboard. Please check CPU-Upgrade.com resource for CPU support list for your board.

## Athlon XP 2000+ (1.6V) Overclocking

Sorry, overclocking information is not available at this time.

## CPU ID information for the Athlon XP 2000+ (1.6V)

Detailed characteristics of processor's internals, including x86 instruction set extensions and individual instructions, high- and low-level technologies, are listed below. This list was acquired from an actual AMD Athlon XP 2000+ processor with the help of the x86 CPUID instruction. Any discrepancies between CPUID features and official specifications are likely due to some features being disabled in BIOS, or due to a bug in our CPUID decoding algorithm.

Our CPUID database contains 2 records for this microprocessor. See all submitted records.

Use our CPU identification tool to check features of your processor.

| Submission details | | | |
|---|---|---|---|
| Manufacturer: | AMD | Measured frequency: | 1662 MHz |
| CPU Family: | Athlon XP | Comment: | Thoroughbred A0 27291 |
| Model Number: | 2000+ | | |
| Part number (supplied): | AXDA2000DUT3C | Submitted by: | Neon |
| Part number (guessed): | AXDA2000DUT3C | Submitted on: | |
| Stepping Code: | AIRGA 0233MPMW | CWD version: | 0.4 |

| General information | |
|---|---|
| Vendor: | AuthenticAMD |
| Processor name (BIOS): | AMD Athlon(tm) XP 2000+ |
| Cores: | 1 |
| Processor type: | Original OEM Processor |
| CPUID signature: | 680 |
| Family: | 6 (06h) |
| Model: | 8 (08h) |
| Stepping: | 0 (00h) |

| Cache details | | | |
|---|---|---|---|
| Cache: | L1 data | L1 instruction | L2 |
| Size: | 64 KB | 64 KB | 256 KB |
| Associativity: | 2-way set associative | 2-way set associative | 16-way set associative |
| Line size: | 64 bytes | 64 bytes | 64 bytes |
| Lines per tag: | 1 | 1 | 1 |

| Supported instructions | |
|---|---|
| Instruction set extensions | Additional instructions |
| MMX | CMOV |
| AMD extensions to MMX | CMPXCHG8B |
| 3DNow! | FXSAVE/FXRSTORE |
| Extensions to 3DNow! | SYSCALL/SYSRET |
| SSE | SYSENTER/SYSEXIT |

| Integrated features and technologies | |
|---|---|
| Major features | Other features |
| On-chip Floating Point Unit | 36-bit page-size extensions |
| | Advanced programmable interrupt controller |
| | Debugging extensions |
| | Machine check architecture |
| | Machine check exception |
| | Memory-type range registers |
| | Model-specific registers |
| | Page attribute table |
| | Page global extension |
| | Page-size extensions (4MB pages) |
| | Physical address extensions |
| | Temperature sensor |
| | Time stamp counter |
| | Virtual 8086-mode enhancements |

## CPUs, related to AMD Athlon XP 2000+ (1.6V)

The list of related CPUs does not include all models. For the complete list, please see the related "K7" processors for socket 462 page.

| Model | Frequency | L2 cache | Features | |
|---|---|---|---|---|
| AMD Athlon XP family, Socket 462 | | | | |
| Athlon XP 2000+ (1.6V) | 1.66 GHz | 256 KB | SSE | |
| Athlon XP 2600+ (1333FSB, 512KB) | 2.08 GHz | 512 KB | SSE | + |
| Athlon XP 2800+ (1V, 1.65V) | 2.08 GHz | 512 KB | SSE | + |
| Athlon XP 3000+ (400FSB) | 2.1 GHz | 512 KB | SSE | + |
| Athlon XP 2600+ (266FSB) | 2.13 GHz | 256 KB | SSE | + |
| Athlon XP 2600+ (Thorton) | 2.13 GHz | 256 KB | SSE | + |
| Athlon XP 2800+ (1V, 1.5V) | 2.08 GHz | 512 KB | SSE, CnQ | + |
| Athlon XP 3000+ (1V) | 2.1 GHz | 512 KB | SSE, CnQ | + |
| Athlon XP 2800+ (266FSB) | 2.13 GHz | 512 KB | SSE | + |
| Athlon XP 2700+ (266KB) | 2.16 GHz | 256 KB | SSE | + |
| Athlon XP 3100+ | 2.2 GHz | 256 KB | SSE | + |
| Athlon XP 3000+ (333FSB) | 2.16 GHz | 512 KB | SSE | + |
| Athlon XP 3200+ (400FSB) | 2.2 GHz | 512 KB | SSE | + |
| Athlon XP 2800+ (333FSB, 256KB) | 2.25 GHz | 256 KB | SSE | + |
| Athlon XP 3200+ (333FSB) | 2.33 GHz | 512 KB | SSE | + |
| Other families, K7 micro-architecture, Socket 462 | | | | |
| Duron DHD1400DUVJC (1.4 GHz) | 1.4 GHz | 64 KB | SSE | + |
| Athlon A1400AMS3B (1.4 GHz) | 1.4 GHz | 256 KB | SSE, 3DNow! | |
| Athlon A1400AMS3C (1.4 GHz) | 1.4 GHz | 256 KB | SSE, 3DNow! | |
| Athlon 1400+ | 1.4 GHz | 256 KB | SSE, CnQ | + |
| Duron DHD1600DUVJC (1.6 GHz) | 1.6 GHz | 64 KB | SSE | + |
| Duron DHD1800DUVJC (1.8 GHz) | 1.8 GHz | 64 KB | SSE | + |
| Sempron 2800+ (Thorton) | 2 GHz | 256 KB | SSE | + |
| Sempron 3000+ | 2 GHz | 512 KB | SSE | + |
| Sempron 3300+ | 2.2 GHz | 512 KB | SSE | + |

- Within each category, the CPUs are sorted from slower (at the top) to faster (at the bottom)
- Backgroud color of specs and features indicate whether they are better or worse than similar spec/feature of the Athlon XP 2000+ (1.6V)
- Click on the icon to compare any CPU in the table with the AMD Athlon XP 2000+ (1.6V) (Javascript required).
- Features abbreviations:
  3DN - SSE instructions
  CnQ - PowerNow! / PowerNow!

## Pictures (10)

**AXDA2000DUT3C Image**
Posted by: Sonya Finkey — 2006-10-12 17:07:50

**AMD Athlon XP 2000+ - AXDA2000DUT3C**
Posted by: AAC — 2007-01-11 13:10:22

**AMD Athlon XP 2000+ - AXDA2000DUT3C**
Posted by: Semik.com — 2009-02-26 05:24:50

From Czech republic - foto by Semik.com

Posted by: Daryl Hathaway — 2009-03-19 13:52:02

K1WGA

Posted by: Fuynfactory — 2011-08-22 14:57:35

**Photo**
Posted by: Nahuel Roselló — 2011-11-15 22:34:35

Submitted by Nahuel Roselló - Rosario, Argentina

**@ian1337**
Posted by: @ian1337 — 2019-07-20 10:56:59

Check more, @hwrestard in telegram

Posted by: Neon — 2022-12-05 17:06:18

CPU-Z screenshot

CPUID 680

Posted by: Neon — 2022-12-05 17:06:56

CPU-Z screenshot

CPUID 681

**Socket 462**
Posted by: CLR — 2024-03-07 10:23:39

AMD Athlon™

AXDA2000DUT3C 9870283281122

3UHB 03209MHz 1999 AMD

Post picture

**Comments (8)**

You're welcome to post suggestions, corrections, missing information, your own personal AMD Athlon XP 2000+ (1.6V) review, or your experience with the microprocessor. For all other questions please proceed to the Athlon XP 2000+ (1.6V) discussion page.

Post comment

**Stepping code**
Posted by: Guker — 2006-09-15 17:52:25

A to add Stepping code AIUGA

**Response:** Stepping code added

**Upgrade from XP 1700+ to 2000+ Worth it or Not?**
Posted by: John B — 2007-01-31 02:05:02

Hi - would I have any noticable increase in speed with this upgrade 1700 - 2000 which the manual for my ECS K7S5a MB states is the most it can take.

Cheers

JB

**Response:** ECS K7S5A can be upgraded to Athlon XP 2600+: http://www.cpu-upgrade.com/cp-bn/SearchSite.pl?SEARCH=K7S5a+&PROCESS=Search

**Another stepping code.**
Posted by: DaveLister[cz] — 2008-02-04 03:02:47

I have this cpu with stepping code which is not mentioned in yours list. It's AIXHB.

**Thoroughbred A or B?**
Posted by: rennamez — 2008-04-14 22:35:35

Hi.
I just want to know if my Athlon XP is a Thoroughbred-A or a Thoroughbred-B.
Part number is AXDA2000DUT3C (obviously) and stepping code is AIUGA 0240MPEW.
Thanks in advance.

**Response:** It's a Thoroughbred-A

**Good OC'er**
Posted by: Johnny B — 2008-09-16 08:44:09

Someone gave me one of these. It had a stepping of AIUHB and was unlocked. It ran 2100MHz at the default 1.6v and 241MHz at 1.88v on air. After around six months of being beat, 3 fried it with a sloppy application of AS II. Oh well.

**Stepping**
Posted by: elcpc.de — 2010-04-21 08:32:26

My stepping code is SDKIB

**overclock**
Posted by: oldman1943 — 2010-04-24 02:23:15

I installed this processor on a ASUS A7N8X-E Deluxe, and was very pleased the processor over clocked to 2.325 Gh on air, and was stable. I tried upping the voltage by 1 notch and it was again stable at 2.4 gh. tried 1 more notch on voltage but it was a bit unstable. So I took it back 1 notch and now use the board for my old games.

**not in list**
Posted by: matty — 2010-10-08 13:54:19

stepping code is KDWB but the date code is 0335RPMW

Post comment


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