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# ASK AMD PROCESSOR SUPPORT

## Problem

**What are the operating specifications (temperature, voltage, frequencies, etc.) of my AMD Athlon™ XP Processor?**

## Solution

### AMD Athlon™ XP Processor Specifications

The operating specifications of an AMD Athlon™ XP processor can be determined by the processor's Ordering Part Number (OPN), which is located on the processor. Valid OPN examples for AMD Athlon XP processors are included below, as well as a brief chart that details [how to read an OPN](#). For additional information on current OPN details, see the chapter entitled "Ordering Information" in the processor's data sheet, which can be downloaded from the [Technical Documents page](#) for the AMD Athlon XP Processor.

**Note:** The operating temperature of a processor is highly dependent on the induced workload, ambient temperature, and the efficiency of the cooling sub-system. However, the operating temperature should never exceed the processor's specified maximum operating temperature rating. For optimal performance, use a heatsink solution evaluated and recommended by AMD. A list of these recommended solutions is available on AMD's [Thermal Solutions page](#) for the AMD Athlon XP processor.

#### AMD Athlon XP Processors

Core	OPN	Model	Operating Freq. (MHz)	Clock Mult.	Nominal Voltage	Max Die Temp.	FSB Freq. (MHz)	L2 Cache
Model 10	AXDA3200DKV4E	3200+	2200MHz	11x			400MHz	
	AXDA3000DKV4E	3000+	2100MHz	10.5x				
	AXDA3000DKV4D	3000+	2167MHz	13x				

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"Barton"	AXDA2800DKV4D	2800+	2083MHz	12.5x	1.65V	85° C	333MHz	512KB	
	AXDA2600DKV4D	2600+	1917MHz	11.5x					
	AXDA2500DKV4D	2500+	1833MHz	11x					
Model 10 "Thorton"	AXDC2400DKV3C	2400+	2000MHz	15x	1.65V	85° C	266MHz	256KB	
	AXDC2200DKV3C	2200+	1800MHz	13.5x	1.60V	85° C			
	AXDC2000DKV3C	2000+	1667MHz	12.5x	1.60V	90° C			
Model 8 "Thoroughbred"	AXDA2700DKV3D	2700+	2167MHz	13x	1.65V	85° C	333MHz	256KB	
	AXDA2600DKV3D	2600+	2083MHz	12.5x					
	AXDA2600DKV3C	2600+	2133MHz	16x					
	AXDA2400DKV3C	2400+	2000MHz	15x					
	AXDA2400DUV3C	2400+	2000MHz	15x	1.60V	90° C	266MHz		
	AXDA2200DUV3C	2200+	1800MHz	13.5x					
	AXDA2200DKV3C	2200+	1800MHz	13.5x	1.65V				
	AXDA2100DUT3C	2100+	1733MHz	13x	1.60V				
	AXDA2000DUT3C	2000+	1667MHz	12.5x					
	AXDA2000DKT3C	2000+	1667MHz	12.5x	1.65V				
	AXDA1900DLT3C	1900+	1600MHz	12x	1.50V				
	AXDA1800DUT3C	1800+	1533MHz	11.5x	1.60V				
	AXDA1800DLT3C	1800+	1533MHz	11.5x	1.50V				
	AXDA1700DUT3C	1700+	1467MHz	11x	1.60V				
	AXDA1700DLT3C	1700+	1467MHz	11x	1.50V				
	AXDA1600DUT3C	1600+	1400MHz	10.5x	1.60V				
Model 6 "Palomino"	AX2100DMT3C	2100+	1733MHz	13x	1.75V		90° C	266MHz	256KB
	AX2000DMT3C	2000+	1667MHz	12.5x					
	AX1900DMT3C	1900+	1600MHz	12x					
	AX1800DMT3C	1800+	1533MHz	11.5x					
	AX1700DMT3C	1700+	1467MHz	11x					
	AX1600DMT3C	1600+	1400MHz	10.5x					

	AX1500DMT3C	1500+	1333MHz	10x				
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## How to Read an OPN

### OPN Example of an AMD Athlon XP Processor

<b>AXDA 3200 D K V 4 E</b>	
AXDA	<b>Architecture Segment:</b> AXDA = AMD Athlon™ XP Processor ("Barton"/"Thoroughbred") AXDC = AMD Athlon™ XP Processor ("Thorton") AX = AMD Athlon™ XP Processor ("Palomino")
3200	<b>Model Number:</b> 1500+ to 3200+ and above
D	<b>Package Type:</b> D = OPGA
K	<b>Operating Voltage:</b> L = 1.50V U = 1.60V K = 1.65V M = 1.75V
V	<b>Die Temperature:</b> T = 90 Degrees Celsius V = 85 Degrees Celsius
4	<b>Size of L2 Cache:</b> 3 = 256KB 4 = 512KB
E	<b>Max FSB:</b> C = 266MHz D = 333MHz E = 400MHz

## RELATED SOLUTIONS:

[AMD Athlon™ XP Processor Specifications](#)

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