

AMD Processor Recognition



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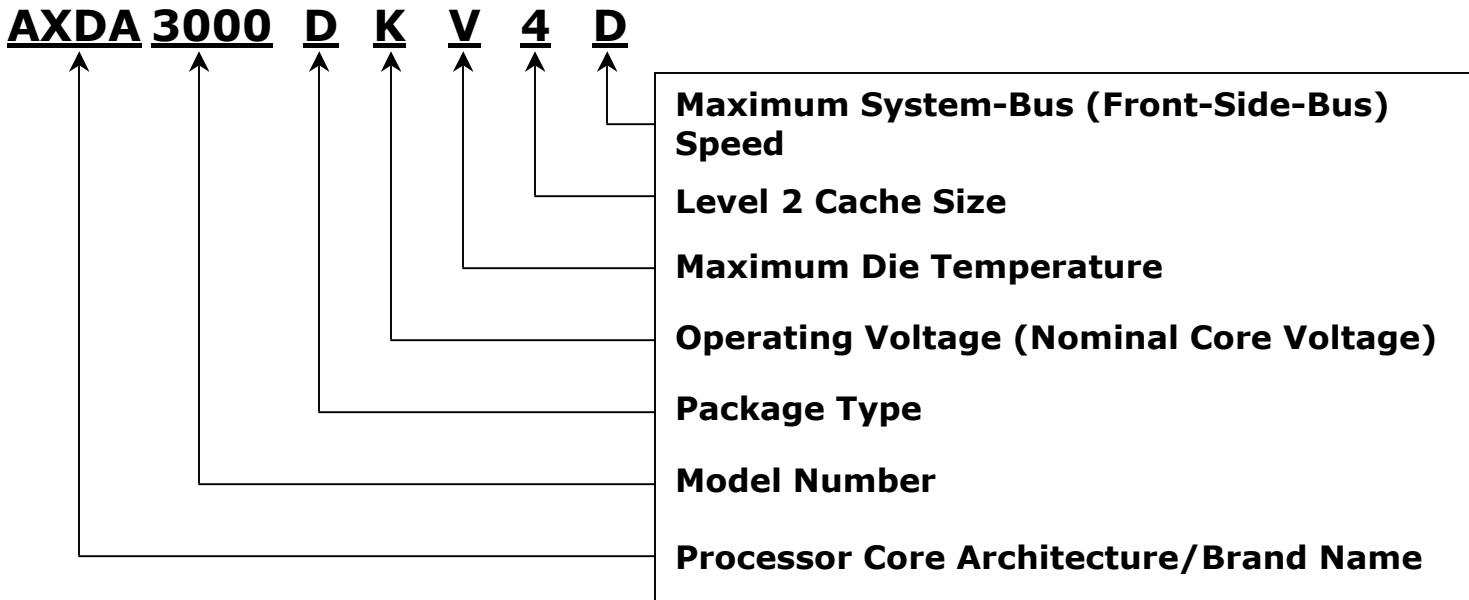
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AMD Processor Ordering Part Number (OPN) Breakdown

Processors are identified by markings known as Ordering Part Number (OPN). The OPN identifies the processor and its specifications.



Processor Core Architecture/Brand Name:

These alpha characters define the core architecture of the processor.

OPN Code	Brand Name	Technology
AXDA	AMD Athlon™ XP	0.13μm
AX	AMD Athlon™ XP	0.18μm
AMSN	AMD Athlon™ MP	0.13μm
AMP/AHX	AMD Athlon™ MP	0.18μm
K7/A	AMD Athlon™	0.18μm
AHM	Mobile AMD Athlon™ 4	0.18μm
AXMS/AXMD/AXDH	Mobile AMD Athlon™ XP	0.13μm
D/DHD/DHM/DHL	AMD Duron™	0.18μm

Model Number:

This four digit numeric field defines the speed of the processor in megahertz or Model Number as appropriate.

OPN Code	Frequency
0500	500 MHz
0550	550 MHz
0600	600 MHz
0650	650 MHz
0700	700 MHz
0750	750 MHz
0800	800 MHz
0850	850 MHz
0900	900 MHz
0950	950 MHz
1000	1000 MHz
1100	1100 MHz
1133	1133 MHz
1200	1200 MHz
1300	1300 MHz
1333	1333 MHz
1400	1400 MHz (Desktop)

OPN Code	Model Number
1400	1400+ (Mobile)
1500	1500+
1600	1600+
1700	1700+
1800	1800+
1900	1900+
2000	2000+
2100	2100+
2200	2200+
2400	2400+
2500	2500+
2600	2600+
2700	2700+
2800	2800+
3000	3000+

Package Type:

This single alpha character defines the package type for this device.

OPN Code	Package Type
A	CPGA
B	OBGA
D	OPGA
E	uPGA
F	OPGA
G	uPGA

Operating Voltage (Nominal Core Voltage):

This single alpha character defines the voltage for this processor.

OPN Code	Voltage
Y	1.10 V
C	1.15 V
T	1.20 V
X	1.25 V
W	1.30 V
J	1.35 V
V	1.40 V
Q	1.45 V
L	1.50 V
H	1.55 V
U	1.60 V
K	1.65 V
P	1.70 V
M	1.75 V
N	1.80 V

Maximum Die Temperature:

This single alpha character defines the maximum die temperature for this processor.

OPN Code	Temperature
R	70 °C
V	85 °C
T	90 °C
S	95 °C
Q	100 °C

Level 2 Cache Size:

This single alpha character defines the Level 2 Cache Size for this processor, in addition to 128KB Level 1 Cache.

OPN Code	Cache Size
1	64 KB
2	128 KB
3	256 KB
4	512 KB

Maximum System-Bus Speed:

This single alpha character defines the maximum System-Bus speed for this processor.

OPN Code	Speed
B	200 MHz
C	266 MHz
D	333 MHz

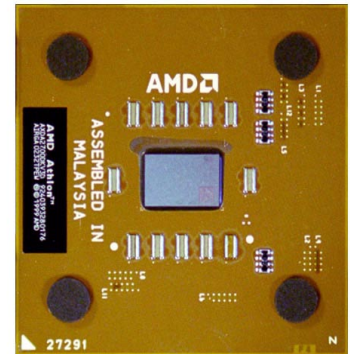
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Examples:

OPN example for the AMD Athlon™ XP Processor:

AXDA 3000 D K V 4 D

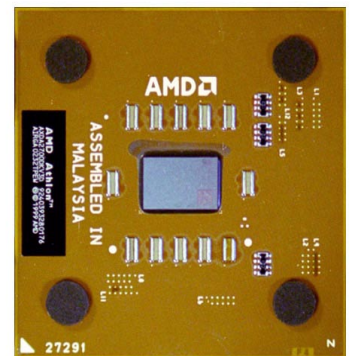
AXDA	Processor Core Architecture:	AMD Athlon XP Processor with Quantispeed™ Architecture
3000	Model Number:	3000+ operating at 2.167 GHz
D	Package Type:	Organic Pin Grid Array (OPGA)
K	Operating Voltage:	1.65 V
V	Max Die Temperature:	85°C
4	Size of L2 Cache:	512 Kbytes
D	System-Bus:	333 MHz



OPN example for the AMD Athlon MP Processor:

AMSN 2600 D K T 3 C

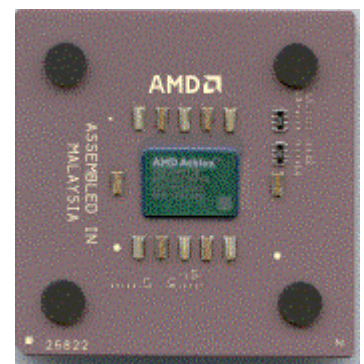
AMSN	Processor Core Architecture:	AMD Athlon MP Processor
2600	Model Number:	2600+ operating at 2.133 GHz,
D	Package Type:	Organic Pin Grid Array (OPGA)
K	Operating Voltage:	1.65 V
T	Max Die Temperature:	90°C
3	Size of L2 Cache:	256 Kbytes
C	System-Bus:	266 MHz



OPN example for the AMD Athlon Processor

A 1400 A M S 3 C

A	Processor Core Architecture:	AMD Athlon Processor
1400	Model Number:	1400MHz,
A	Package Type:	Ceramic Pin Grid Array (CPGA)
M	Operating Voltage:	1.75 V
S	Max Die Temperature:	95°C
3	Size of L2 Cache:	256 Kbytes
C	System-Bus:	266 MHz



OPN example for the AMD Duron™ Processor

DHD 1300 A M T 1 B

DHD	Processor Core Architecture:	AMD Duron Processor
1300	Model Number:	1300MHz
A	Package Type:	Ceramic Pin Grid Array (CPGA)
M	Operating Voltage:	1.75 V
T	Max Die Temperature:	90°C
1	Size of L2 Cache:	64 Kbytes
B	System-Bus:	200 MHz

