

AMD Processor Recognition



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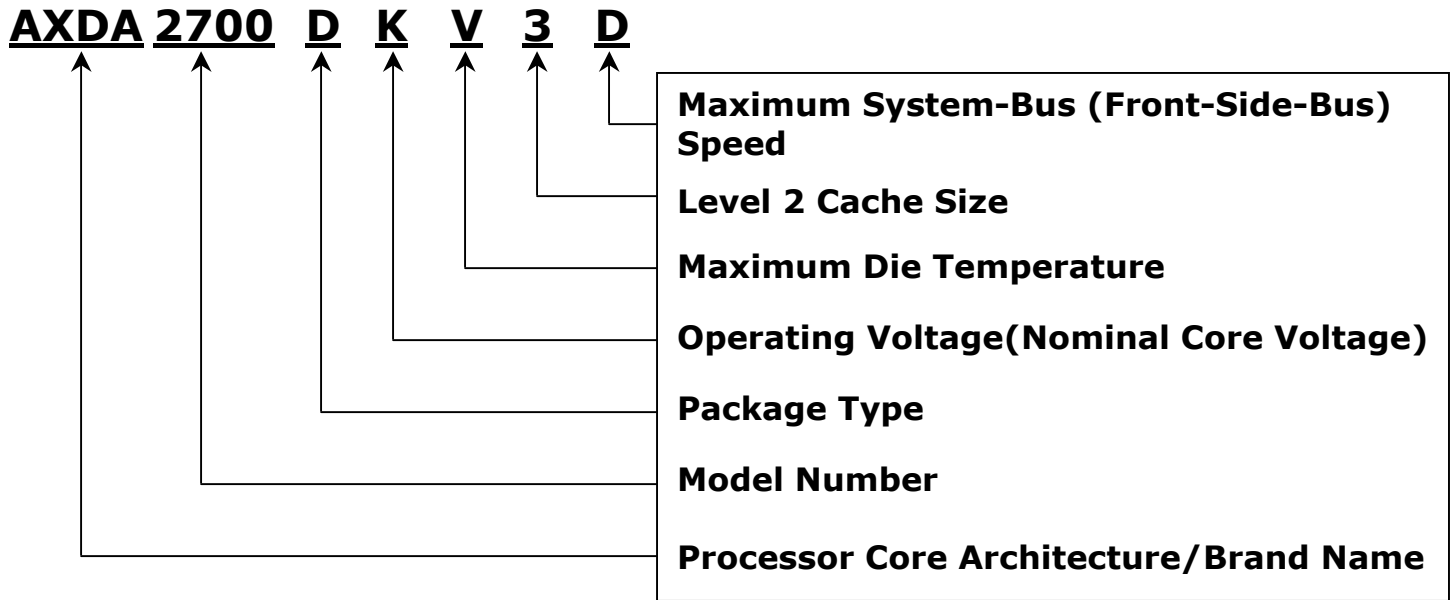
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AMD Processor Ordering Part Number (OPN) Breakdown

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	OPN Code	Model Number	Frequency
0500	500 MHz	1400	1400+	1200 (Mobile)
0550	550 MHz	1500	1500+	1333 MHz
0600	600 MHz	1600	1600+	1400 MHz
0650	650 MHz	1700	1700+	1467 MHz
0700	700 MHz	1800	1800+	1533 MHz
0750	750 MHz	1900	1900+	1600 MHz
0800	800 MHz	2000	2000+	1667 MHz
0850	850 MHz	2100	2100+	1733 MHz
0900	900 MHz	2200	2200+	1800 MHz
0950	950 MHz	2400	2400+	2000 MHz
1000	1000 MHz	2600	2600+	2133 MHz
1100	1100 MHz	2700	2700+	2167MHz
1133	1133 MHz			
1200	1200 MHz			
1300	1300 MHz			
1333	1333 MHz			
1400	1400 MHz (Desktop)			

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

Examples:

OPN example for the AMD Athlon™ XP Processor:

AXDA 2700 D K V 3 C

AXDA	Processor Core Architecture:	AMD Athlon XP Processor with Quantispeed™ Architecture
2700	Model Number:	2700+ 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
3	Size of L2 Cache:	256 Kbytes
D	System-Bus:	333 MHz

OPN example for the AMD Athlon MP Processor:

AMSN 2200 D U T 3 C

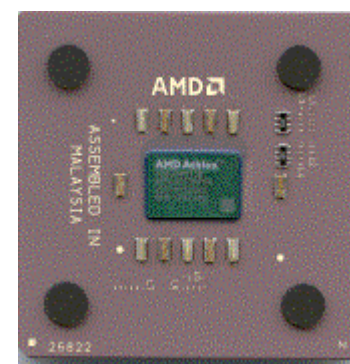
AMSN	Processor Core Architecture:	AMD Athlon MP Processor
2200	Model Number:	2200+ operating at 1.800 GHz,
D	Package Type:	Organic Pin Grid Array (OPGA)
U	Operating Voltage:	1.60 V
T	Max Die Temperature:	90°C
3	Size of L2 Cache:	256 Kbytes
C	System-Bus:	266 MHz



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
1200	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