Do more work while consuming less power

AMD Athlon™ Processors for Embedded Applications

Satisfy the demands of your low power embedded applications with AMD technology. AMD Athlon™ processors are based on award winning AMD64 technology with Direct Connect Architecture and can offer outstanding performance and energy efficiency for your application needs.

**Outstanding Performance**

<table>
<thead>
<tr>
<th>Processor</th>
<th>Overall Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD Athlon™ 3100+</td>
<td>151%</td>
</tr>
<tr>
<td>AMD Athlon™ 2600+</td>
<td>124%</td>
</tr>
<tr>
<td>AMD Athlon™ 2000+</td>
<td>82%</td>
</tr>
<tr>
<td>Intel Celeron M 440</td>
<td>100%</td>
</tr>
</tbody>
</table>

Performance benchmarks are the geometric mean of compiled data from the list of overall benchmark scores from the listed tests. The geometric mean of scores is normalized to the Intel Celeron M 440 processor. Performance benchmark system configurations on next page.

**Exceptional Energy Efficiency**

The AMD Athlon processors in this comparison all have lower TDP (Thermal Design Power) ratings than that of Intel’s Celeron M 440. This fact coupled with their excellent performance ratings indicate AMD’s outstanding energy efficiency in this comparison!

<table>
<thead>
<tr>
<th>Processor</th>
<th>AMD Athlon™ 2000+ TDP</th>
<th>AMD Athlon™ 2600+ TDP</th>
<th>AMD Athlon™ 3100+ TDP</th>
<th>Intel Celeron M 440 TDP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8 Watts</td>
<td>15 Watts</td>
<td>25 Watts</td>
<td>27 Watts</td>
</tr>
</tbody>
</table>

**Features and Benefits**

- **AMD64** offers flexibility by supporting 32- and 64-bit applications across embedded applications
- **Direct Connect Architecture** for increased performance, scalability and improved multi-tasking
- **AMD PowerNow!™** can decrease overall power consumption by providing optimum performance on demand
- **Enhanced Virus Protection** for an extra level of virus protection to your security solution
- **AMD Virtualization™ Technology** chip-based virtualization technology helps virtualization software run more securely and efficiently

*As a part of a comprehensive security program, AMD strongly recommends enabling Enhanced Virus Protection (EVP) and using up-to-date third-party antivirus software.*
Performance Benchmark System Configurations

AMD Athlon™ Processor-Based System Configuration

Operating System
Name: Windows® XP Professional
Version: Service Pack 2
Build: 2600
DirectX® Version: DirectX 9.0C

Processor
AMD Athlon™ 3100+, 2600+, 2000+ Processors

Hardware
Motherboard: Foxconn A690GM2MA
BIOS Info: 697F1P35
Is BIOS Publicly Available: Yes
Chipset: AMD M690G

Memory
Manufacturer and Type: Crucial CT646AA667.E8F
Quantity & Size each: Qty (2) 512MB DIMM
Total Memory Size: 1GB

Hard Drive:
Make and Model: Seagate Barracuda 7200.7
Hard Drive Size: 160GB
Transfer Mode: ATA 133, 7200 RPM, NTFS

Network Card:
Model Number: Integrated Realtek 10/100/1000

Sound Card:
Model Number: Integrated Realtek HD Audio

Video Card:
Graphics Adapter: Integrated AMD M690G
Memory Size and Type: 128MB, UMA

Network Driver:
Realtek 5.657.814.2006

Audio Driver:
Realtek 5.10.0.5366

Video Driver:
AMD 8.342.0.0

Other:
-Memory timings for 3100+ were 5-5-5-15-21, 335MHz, DDR2-670
-Memory timings for 2600+ were 5-5-5-15-21, 321MHz, DDR2-642
-Memory timings for 2000+ were 5-5-5-15-21, 400MHz, DDR2-402
-AMD CPU Driver 1.3.2.0 loaded

Intel Celeron M-Based System Configuration

Operating System
Name: Windows® XP Professional
Version: Service Pack 2
Build: 2600
DirectX® Version: DirectX 9.0C

Processor
Intel Celeron M 440 Processor

Hardware
Motherboard: IBase MB899
BIOS Info: 6.00 PG
Is BIOS Publicly Available: Yes
Chipset: Intel 945GM

Memory
Manufacturer and Type: Crucial CT646AA667.E8F
Quantity & Size each: Qty (2) 512MB DIMM
Total Memory Size: 1GB

Hard Drive:
Make and Model: Seagate Barracuda 7200.7
Hard Drive Size: 160GB
Transfer Mode: ATA 133, 7200 RPM, NTFS

Network Card:
Model Number: Integrated Intel 10/100/1000

Sound Card:
Model Number: Integrated Realtek HD Audio

Video Card:
Graphics Adapter: Integrated Intel 945GM
Memory Size and Type: 128 MB, UMA

Network Driver:
Intel 8.0.21.0

Audio Driver:
Realtek 5.10.0.6270

Video Driver:
Intel 6.14.10.4864

Other:
-Memory timings were 4-4-4-12-16
-Actual memory speed was 266MHz (DDR2-532)

Performance Benchmark Suite

- SiSoftware Sandra 2007 Processor Arithmetic, Memory Bandwidth, and Performance Index tests, Version 2007.6.11.40
- BABCo® SYSmark® 2007 Preview Rating test, v1.02.396
- Futuremark Corporation 3DMark™06, Professional Edition v1.1.0
- Ziff Davis WinBench®99 Business Graphics test, v2.0, UI v1.0.1

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