AMD Opteron™ X2170 APU

The AMD Opteron™ X2170 APU is an enhancement to the world's first server-class x86 APU SoC. With fully integrated CPU, GPU, and I/O in a power efficient package, it is optimized to help lower datacenter TCO and fit into dense server platforms powering the next generation of datacenters and workloads.

- Featuring Graphics Core Next (GCN) Architecture
- TDP as low as 11W
- Highly integrated x86 SoC for emerging multimedia-oriented workloads

Target workloads:
- Hosted DT
- Cloud gaming
- Content Distribution Network (CDN)
- Video preprocessing and transcoding

### PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>CPU Core Count</th>
<th>CPU Core Frequency</th>
<th>Northbridge Frequency</th>
<th>AMD Radeon™ Cores</th>
<th>GPU Frequency</th>
<th>Power Band</th>
<th>Max DDR3 Speed</th>
<th>L2 Cache</th>
</tr>
</thead>
<tbody>
<tr>
<td>X2170</td>
<td>4</td>
<td>1.0-2.4 GHz</td>
<td>1000 MHz</td>
<td>128</td>
<td>655 MHz-800 MHz</td>
<td>11W-25W</td>
<td>1866 MHz</td>
<td>2M</td>
</tr>
</tbody>
</table>

Note: AMD offers the ability for a user to control their own TDP in BIOS based upon the CPU and GPU frequency requirements of their workload. The default setting is a blended CPU/GPU optimized configuration where CPU frequency=1.5GHz, GPU Frequency=500MHz, and TDP=15W.

### TECHNOLOGY SPECIFICATIONS

- **Process Technology**: 28nm process technology
- **Memory Support**: Single channel DDR3 memory controller with ECC support DDR3-1866 MHz UDIMM and SODIMM supported
- **Graphics Technology**: GCN Architecture with AMD Radeon™ HD 8000 Series Graphics Unified Video Decoder, Video Compression Engine
- **Packaging**: 24.5mm x 24.5mm FT3 BGA
- **Virtualization Support**: AMD-Virtualization™ technology

### INTEGRATED I/O SPECIFICATIONS

- 8 lanes PCIe® Gen2
- 8 ports USB 2.0, 2 ports USB 3.0
- 2 ports SATA 2/3
- DisplayPort, VGA, HDMI
- Serial Peripheral Interface
- Low Pin Count Interface

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