

AMD Sempron™ 210U/200U Processor-based Mini-DTX Reference Design Kit



Product Overview

The AMD Sempron™ 210U/200U processor-based Mini-DTX reference design kit is configured to provide a versatile system solution to address multiple computing markets. This innovative design helps enable OEMs to implement the benefits of optimized system design by utilizing the low-cost engineering concepts of AMD64 solutions. This AMD Mini-DTX reference design is architected to leverage the rich feature set of the Embedded AMD Sempron™ 200U and 210U processors. The complete kit is designed to help you bring your products to market quickly by including production worthy schematics, BOM, layout and gerber files.

Speed your time to market

AMD developed this reference design to help shorten design cycles and to help you move your solution to market fast. The reference design fits a broad range of computing markets to help reduce engineering investments in thermal, electrical, and mechanical design. Your engineering team can spend more time focusing on features that will make your solution truly exceptional. The design has been completely built and tested to ensure it is a production ready solution.

This solution provides you with a complete product to take to production or an excellent design starting point that can help reduce your NRE costs.

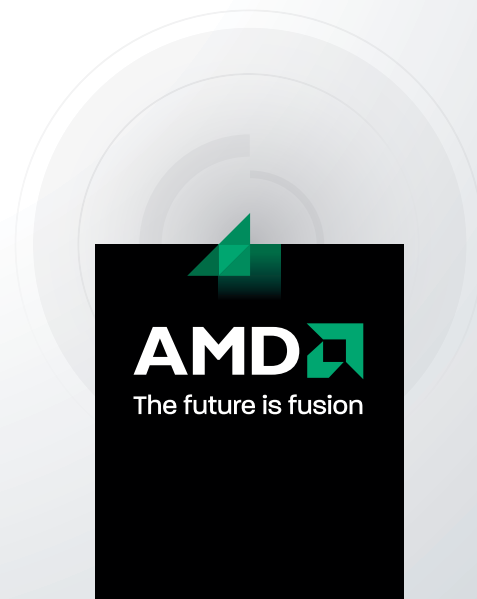
The AMD Sempron 210U/200U processor-based Mini-DTX reference design can help you:

- Minimize cost and production time
- Utilize Mini-DTX—an industry-standard form factor
- Provide a mass production capable design
- Utilize a design that is proven functional without modifications or as a spring-board to a customized device; allowing designers to focus on your unique product requirements

Application Markets

The reference design provides an advanced starting point to help you address these markets, including:

- Embedded controllers
- Industrial computing products
- Point of sale
- Educational applications
- Information appliances
- Kiosks
- Digital advertising



Primary Product Features

Two CPU Choices

- AMD Sempron™ 200U 8W @ 1GHz processor for fanless operation
- AMD Sempron 210U 15W @ 1.5GHz processor for higher performance

Chipset - AMD M690E/SB600 Chipset

- Analog VGA interface (up to 2048x1536 @ 32bpp)
- DVI-D interface (up to 2048x1536 @ 32bpp)
- 6 USB 2.0 ports
- 2 SATA II Ports (3Gbps) w/ RAID 0,1,10
- HD Audio interface
- ATA-133 E-IDE port
- 2 PCI Express® x1 connectors

Memory Devices

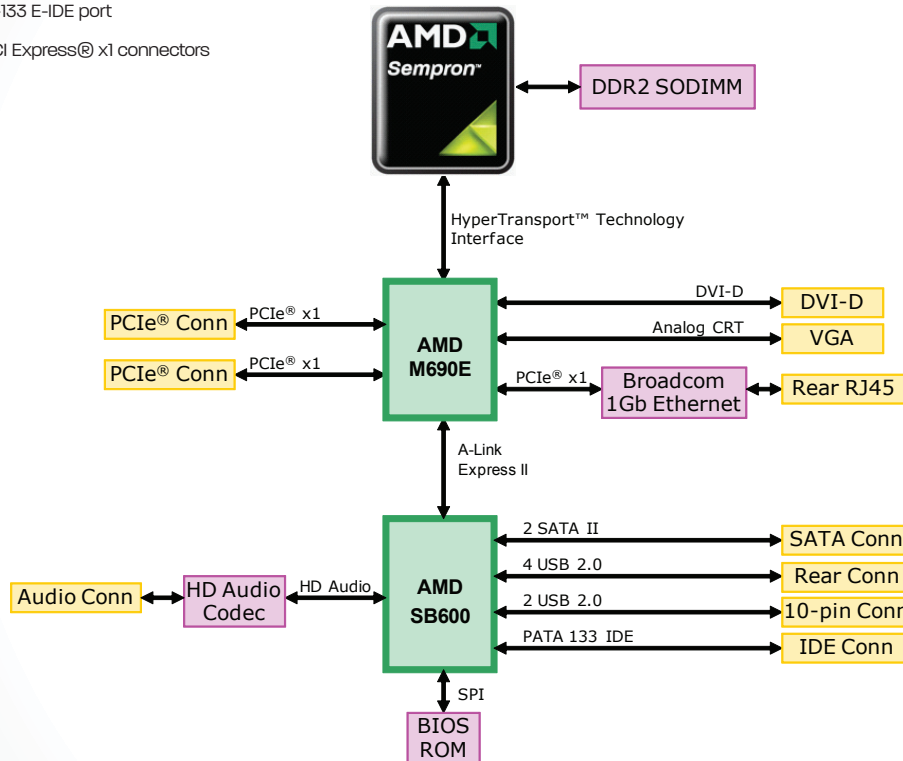
- One 200-pin SODIMM memory slot for DDR2 SDRAM
- One SPI boot ROM

Peripherals

- Broadcom BCM5787 1Gb Ethernet

Other

- AMD HDT Debug Port
- Processor is in an ASB1 package (812-ball BGA) for lower cost and high reliability



ABOUT AMD

AMD (NYSE:AMD) designs and produces innovative microprocessors and low-power processor solutions for the computer, communications, and consumer electronics industries. AMD is dedicated to delivering standards-based, customer-focused solutions for technology users, ranging from enterprises and governments to individual consumers. **47015A**

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