

AM636-B AMD® RS780E ATX Board

PROCESSOR

- Socket 940 AM2+ 65nm for:
 - AMD® AM2 processors: Athlon series / Sempron™
- HyperTransport 3.0

CHIPSET

- AMD® chipset
 - Northbridge: AMD® RS780E
 - Southbridge: AMD® SB710

SYSTEM MEMORY

- Four 240-pin DDR2 DIMM sockets
- Supports maximum of 16GB system memory
- Supports DDR2 667/800/1066MHz DIMMs
- Supports dual channel 128-bit wide memory interface
- Supports unbuffered x8 and x16 DIMMs

BIOS

- Award BIOS
- 8Mbit SPI flash memory

EXPANSION SLOTS

- 1 PCI Express x16 slot
- 1 PCI Express x1 slot
- 3 PCI slots

ONBOARD GRAPHICS FEATURES

- Integrated ATI Radeon HD3200 graphics engine
- Microsoft DirectX 10
- Dual independent displays
 - Completely independent resolution, refresh rates, and display data for the two display paths
- Graphics interface:
 - DVI interface

ONBOARD AUDIO FEATURES

- Realtek ALC885 HD audio codec
- 7.1-channel audio output
- DAC SNR/ADC SNR of 106dB/101dB
- Full-rate lossless content protection technology

ONBOARD LAN FEATURES

- One Realtek RTL8111C PCI Express Gigabit controller
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SERIAL ATA INTERFACE

- Supports 6 SATA (Serial ATA) interfaces which are compliant with SATA 1.0a specification
- SATA speed up to 3Gb/s
- RAID 0 and RAID 1

REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 1 DVI-I port
- 1 DVI-D port
- 1 RJ45 LAN port
- 6 USB 2.0/1.1 ports
- Center/Subwoofer, Rear R/L and Side R/L jacks
- Mic-in, line-in and line-out jacks

I/O CONNECTORS

- 3 connectors for 6 additional external USB 2.0/1.1 ports
- 1 front audio connector for line-out and mic-in jacks
- 2 connectors for 2 external serial ports
- 1 CD-in connector
- 1 IDE connector
- 1 FDD connector
- 6 Serial ATA connectors
- 1 IrDA connector
- 1 CIR connector
- 1 24-pin ATX power connector
- 1 8-pin 12V power connector
- 1 front panel connector
- 4 fan connectors

ENERGY EFFICIENT DESIGN

- ACPI specification 2.0 compliant power management schemes
- Supports S1 and S3
- Wake-On-Events include:
 - Wake-On-PS/2 KB/Mouse
 - Wake-On-USB KB/Mouse
 - Wake-On-LAN
 - Wake-On-Ring
 - RTC timer to power-on the system
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature
- Monitors CPU/DIMM/3.3V/5V/12V/5VSB/1.2V/Vbat voltages
- Monitors CPU/system fan speed
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

PCB

- 4 layers, ATX form factor
- 24.4cm (9.6") x 24.4cm (9.6")

REAR PANEL I/O PORTS

