

AR100-DR AMD® RS780E Mini-ITX Board

PROCESSOR

- Socket 940 AM2+ 65nm for:
 - AMD® AM2 processors: Athlon series / Sempron™
 - AMD® AM3 processors
- Supports maximum of 65W power CPUs
- HyperTransport 3.0

CHIPSET

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

SYSTEM MEMORY

- Two 240-pin DDR2 DIMM sockets
- Supports maximum of 4GB system memory
- Supports DDR2 667/800MHz 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

ONBOARD GRAPHICS FEATURES

- Integrated ATI Radeon HD3200 graphics engine
- Supports maximum resolution of 2560 x 1600, 32bpp
- Microsoft DirectX 10
- 128 byte DDR3 frame buffer onboard
- Dual independent displays
 - Completely independent resolution, refresh rates, and display data for the two display paths
 - Supports HDMI 1080p
 - Supports DVI-D
- Graphics interfaces:
 - Analog CRT
 - HDMI 1080P
 - DVI-D

Note: Dual display is not supported when using HDMI and DVI-D at the same time. For dual display, use an analog CRT monitor with either HDMI or DVI-D.

ONBOARD AUDIO FEATURES

- Realtek ALC662 HD audio codec
- 5.1-channel High Definition audio
- S/PDIF-out interface

ONBOARD LAN FEATURES

- Two Realtek RTL8111DL PCI Express Gigabit controllers
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SERIAL ATA INTERFACE

- Supports four 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 DB-9 serial port
- 1 HDMI port
- 1 DB-15 VGA port
- 1 DVI-I port (DVI-D signal only)
- 2 RJ45 LAN ports
- 4 USB 2.0/1.1 ports
- Mic-in, line-in and line-out

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 connector for an external serial port
- 1 front audio connector for line-out and mic-in jacks
- 1 S/PDIF-out connector
- 4 Serial ATA connectors
- 1 20-pin ATX power connector
- 1 4-pin 12V power connector
- 1 front panel connector
- 1 chassis intrusion connector
- 2 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/V3sb/1.2V/Vbat voltages
- Monitors CPU/system fan speed
- Read back capability that displays temperature, voltage and fan speed

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

PCB

- 6 layers, Mini-ITX form factor
- 17cm (6.7") x 17cm (6.7")

REAR PANEL I/O PORTS

