# DFI-ACP ORevision Control O Long Life Cycle

## AM300-BF AMD® M690E microATX Board

#### PROCESSOR

- AMD S1 socket (638-pin) for: AMD Turion™ 64 X2 Dual-Core AMD Sempron™
- 1GHz HyperTransport (HT) interface speed

#### **CHIPSET**

- AMD<sup>®</sup> chipset
  - Northbridge: AMD® M690E Southbridge: AMD® SB600

#### SYSTEM MEMORY

- Two 200-pin DDR2 SODIMM sockets
- Supports maximum of 4GB system memory Supports up to 800MHz DDR2 SDRAM with maximum memory clock speed of 400MHz
- Supports 16Mx16, 32Mx8, 32Mx16, 64Mx8 and 64Mx16
- memory devices Supports DDR SDRAM self refresh mechanism
- Supports dynamic CKE and ODT for power conservation

#### BIOS

- Award BIOS
- 4Mbit LPC flash memory

#### **ENERGY EFFICIENT DESIGN**

- ACPI specification 2.0 compliant power management schemes
- Supports S3
- Wakeup event for S3 and S5 Supports CPU SMM, generating SMI# signal upon power management events
- Supports CLKRUN # on PCI power management Provides clock generator and CPU STPCLK# control

### **DAMAGE FREE INTELLIGENCE**

- Monitors CPU/system temperature Monitors Vcore/VBAT/1.2V/1.8V voltages
- Monitors CPU/2nd/system fan speed
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

#### **ONBOARD GRAPHICS FEATURES**

- Integrated ATI Radeon™ X1200 series graphics engine
- Side-port memory interface
  - 64MB dedicated side-port frame buffer memory to be used exclusively for the integrated graphics core (video acceleration)
- Supports maximum resolution of 2560 x 1600 in DVI dual link mode
- Microsoft DirectX 9x
- Supports OpenGL format
- Dual independent displays
- Completely independent resolution, refresh rates, and display data for the two display paths
- Graphics interfaces:
- Analog CRT
- LVDS: dual channel 24-bit DVI: for external digital monitor (shared with PCIE x16 slot)

### **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) com-
- pliant

- **ONBOARD AUDIO FEATURES**
- Realtek ALC262 HD audio codec 4-channel DAC and 6-channel ADC High Definition
- Audio Codec with UAA High quality differential CD input
- True stereo line level outputs
- S/PDIF-in/out interface
- 2-channel audio output

#### **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, RAID 1 and RAID 10

#### **IDE INTERFACE**

- One IDE connector supports up to two IDE devices (shared with CompactFlash device)
- Supports up to UltraDMA 133Mbps hard drives Supports PIO IDE transfers

#### **REAR PANEL I/O PORTS**

- 1 mini-DIN-6 PS/2 mouse port 1 mini-DIN-6 PS/2 keyboard port
- 2 DB-9 serial ports
- 1 DB-15 VGA port
- 1 DVI-I port (DVI-D signal only)
- 1 RJ45 LAN port
- 4 USB 2.0/1.1 ports
- Mic-in, line-in and line-out

#### I/O CONNECTORS

- 1 CompactFlash connector (shared with IDE)
- 3 connectors for 6 additional external USB 2.0/1.1 ports
  - 25-pin parallel connector 1
  - Digital I/O connector 1
  - front audio connector for line-out and mic-in jacks
  - CD-in internal audio connector 1
  - S/PDIF-in/out connector 1
  - Serial ATA connectors 4
- 40-pin IDE connector 1
- 1 floppy connector
- 20-pin ATX power connector 1
- 4-pin 12V power connector 1
- chassis open connector
- 1 front panel connector 3 fan connectors

## **EXPANSION SLOTS**

1 PCI Express x16 slot - operates at PCIE x8 only (selectable with DVI dual-link) 3 PCI slots

# **TEMPERATURE**

0°C to 60°C

# HUMIDITY

• 10% to 90%

- 6 layers, microATX form factor
- 24.3cm (9.6") x 24.3cm (9.6")



**REAR PANEL I/O PORTS** 

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