

AR-B7290

AMD® RS690E Socket AM2 Mini ITX Main Board

Startup Manual

Packing List

Before you begin installing your single board, please make sure that the following parts have been shipped.

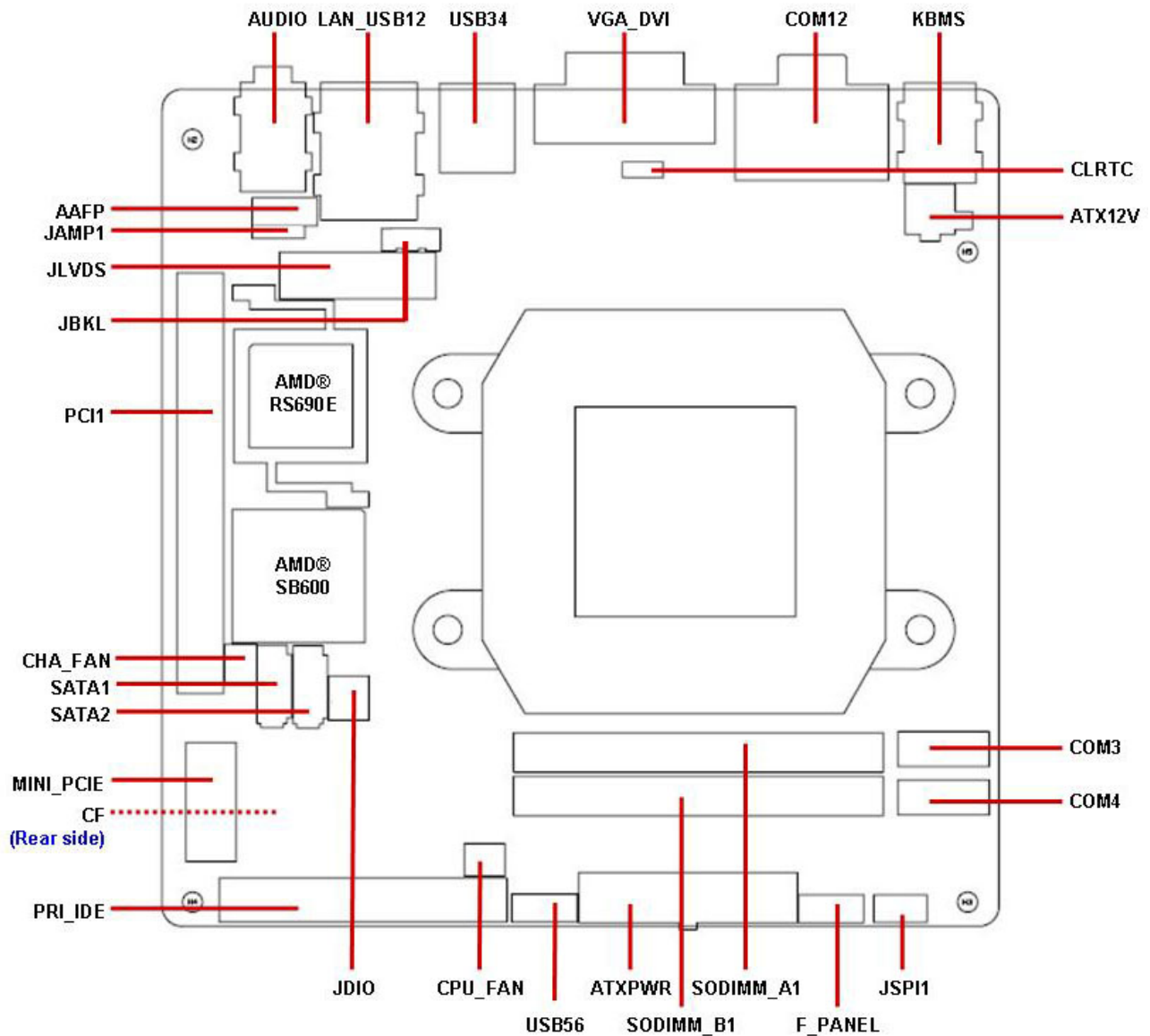
- 1 x AR-B7290 Mini ITX Main board
- 1 x CD-ROM contains the followings:
 - User's Manual in PDF file
 - Drivers
- 2 x COM cable
- 1 x IDE cable (40-pin)
- 1 x SATA cable kit (SATA/Power)
- 1 x I/O Shield
- 1 x Startup Manual

Disclaimer and Notice



The manufacturer reserves the right to make changes, without notice, to any product, including circuits and/or software described or contained in this manual in order to improve design and/or performance. The manufacturer assumes no responsibility or liability for the use of the described product(s), conveys no license or title under any patent, copyright, or masks work rights to these products, and makes no representations or warranties that these products are free from patent, copyright, or mask work right infringement, unless otherwise specified. For the detail product information, please refer to user's manual.

Product Overview





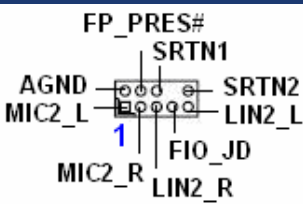
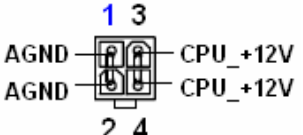
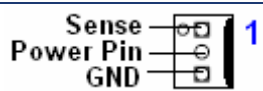
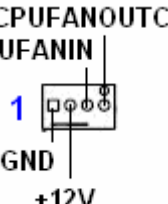
Specifications

System

CPU	AMD® Socket AM2 Support Athlon 64, Athlon 64 X 2, Sempron with 2000MHz Hyper Transport support
HT	200/400/600/800/1000 MHZ
BIOS	8MB SPI Award BIOS
System Chipset	AMD RS690E/SB600
I/O Chipset	Winbond W83627DHG-A
Memory	2 x 200-pin DDR2 400/533/667/800MHz up to 4GB
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring CPU temperature, voltage, and cooling fan status. Auto throttling control when CPU overheats
Expansion Slots	1 x PCI, 1 x CF, 1x Mini PCI-E
S3	Yes
Fan Control	Yes
TPM	TPM1.2 (Infineon® TPM chip 9635 TT 1.2 on board)

I/O	
MIO	1 x D-Sub, 1 x DVI, 1 x Gigabit LAN, 6 x USB 2.0, 2 x SATA, 4 x RS232, 5W AMP x 2-CH, 1x PS/2(KB and MS), Audio (Mic, Line in/out), 1 x IDE
USB	6 x USB 2.0
DIO	8 bit digital I/O, 4 input/ 4 output
Display	
Chipset	Integrated in AMD®RS690E (Radeon X1250)
Max. Resolution	2560 x 1440 bpp (@ 75Hz)
Dual Display	CRT+DVI-D
LVDS	LVDS 24Bit Dual Channel
DVI	Supported by RS690E
Audio	
Audio Codec	ALC888 5.1-channel Audio Codec
Audio Interface	Mic in, Line in, Line out (3 jack)
Audio Amplifier	TPA3005D2 Stereo 5Watt per channel
Ethernet	
LAN1	Realtek RTL8111C PCI-E Gigabit LAN
Ethernet Interface	LAN1 Realtek RTL8111C PCI-E Gigabit LAN

Jumpers			
Label	Function	Note	
CLRTC	Clear CMOS	Normal *	Clear CMOS
			

Connectors		
Label	Function	Note
AAFP	Front Panel Audio Connector	
ATX12V	ATX Power Connector	
CHA_FAN	Chassis Fan Connector	
CPU_FAN	CPU Fan Connector	

Connectors		
Label	Function	Note
F_PANEL	System Panel Connector	<p>PWRLED PWRSW</p> <p>HDLED RESET</p>
JAMP1	Amplifier connector	<p>1</p>
JBKL	LCD Inverter Connector	<p>ENBKL</p>
JLVDS	LVDS connector	
JSPI1	JSPI Connector	<p>F_SPI_MISO</p>