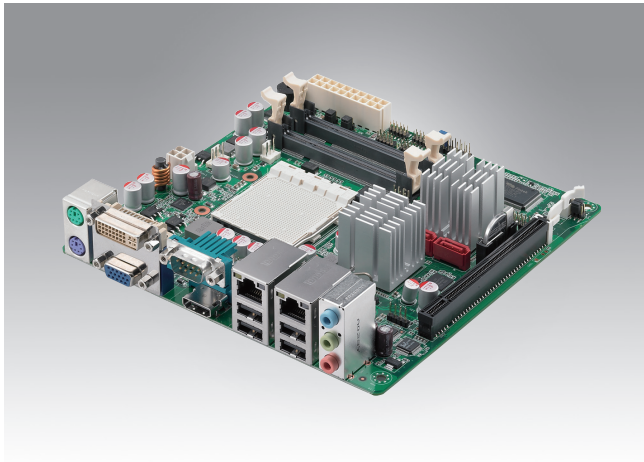


GMB-RS780

**AMD64 Athlon AM2&AM2+ Mini ITX SBC
with HDMI, DVI-D, VGA, 4 COM and 8 USB**



Features

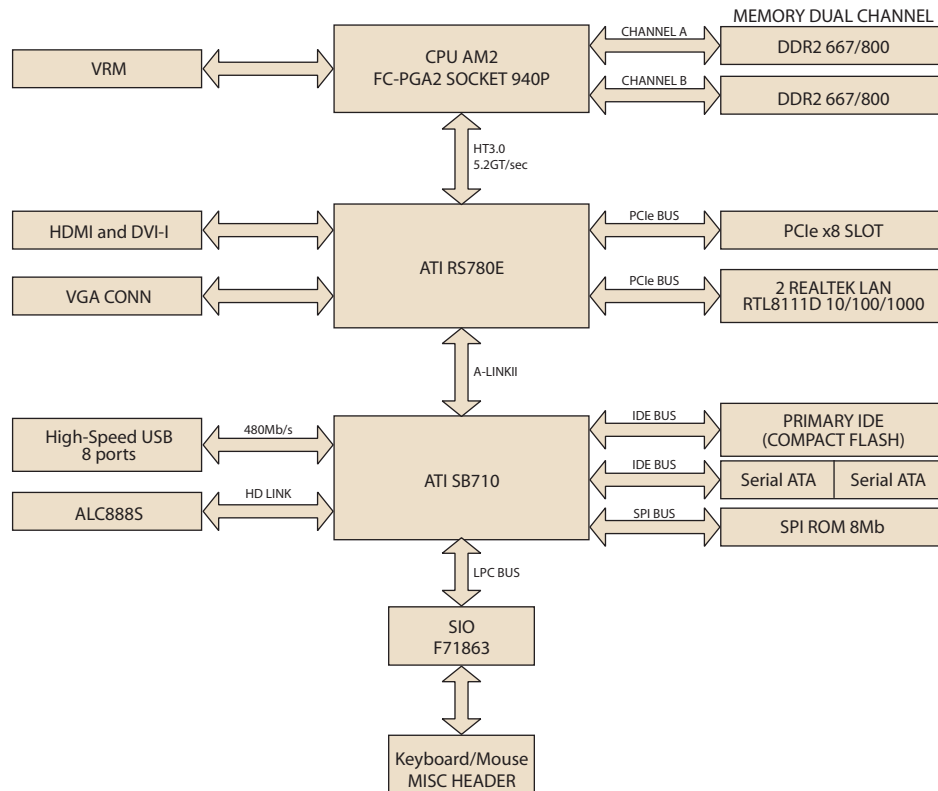
- AMD64 embedded Athlon AM2&AM2+ embedded processor with Socket AM2
- AMD RS780E+ SB710
- Two 200-pin DDR2-800 SO-DIMM max. up to 4GB
- IGP ATI Radeon HD3200
- One CRT/DVI connector and One HDMI display output@rear I/O
- Realtek ALC888 5.1 CH Audio (TPA3005D2 Amplified)
- Two RTL8111D 10/100/1000 Base-T via PCIe x1
- 1 x PCIe x16 (Support PCIe x8 only), 1 x CF Type I/II socket



Specifications

System	CPU	AMD64 embedded Athlon AM2&AM2+ embedded processor with Socket AM2 CPU support list: 3400e Athlon 64x2 1.8G 22W ADJ3400IAA5DOE, 3600+ Athlon 64x2 1.9G 35W ADD3600IAA5DOE 4200+ Athlon 64x2 2.2G 35W ADD4200IAA5DOE, Athlon 64 3100+ 2.0G 25W ADS3100IAR4DRE Athlon 64 2600+ 1.6G 15W ADG2600IAV4DRE, Athlon 64 2000+ 1.0G 8W ADF2000IAV4DRE
	FSB	400 MHz
	BIOS	AMI 8Mb SPI BIOS
	System Chipset	AMD RS780E + SB710
	I/O Chip	Fintek F71863FG
	System Memory	2x 200-pin DDR2-800 SO-DIMM max. up to 4GB
	CF CONN	1x Compact Flash Type I/II socket
	Watchdog Timer	Reset: 1 sec.-255 min. and 1 sec. or 1 min./step
	H/W Status Monitor	Monitoring CPU temperature and cooling fan status. Auto throttling control when CPU overheats
	Expansion	1xPCIe x16 (Support PCIe x8 only)
	S3	USB wake up from S3 Supported
	SmartFan Control	Yes
I/O	MIO	2 x SATA, 1 x K/B, 1 x Mouse, 4 x RS-232 port (COM 1 as double deck with D-Sub connectors on the rear I/O and three 2x5-pin pitch2.0 box-header for COM 2/3/4; All ports as RS-232 and pin-1 with +5V & pin-9 with +12V powered)
	USB	8 x USB 2.0 (4x rear I/O, 4x pitch2.0 pin-header)
	DIO	8-bit General Purpose I/O for DI and DO
Display	Chipset	IGP ATI Radeon HD3200
	Resolution	CRT/DVI: 2560 x 1600 @ 32 bpp, HDMI: 1080p
	Dual Display	CRT + HDMI, DVI + HDMI, CRT + DVI
	LVDS	N/A
Audio	Audio Codec	Realtek ALC888 supports 7.1 ch. Audio
	Audio Interface	Mic in, Line in, Line out
	Audio Amplifier	TPA3005D2 Stereo 6Watt per channel
Ethernet	LAN 1	Realtek RTL8111D Gigabit LAN
	LAN 2	Realtek RTL8111D Gigabit LAN
Back Panel I/O Port		1 x VGA, 1 x DVI, 1 x RS-232 (powered), 1 x HDMI, 4 x USB 2.0/1.1, 2 x RJ45 Port, 1 x Audio I/O with 3 Jacks
Internal I/O Connector		1 x PS2 KBMS (2 x 5, pitch 2.0 mm) 2 x USB connectors support additional 4 USB ports (2 x 5, pitch 2.0 mm) 1 x 20-pin ATX Power connector, 3 x COM port (2 x 5, pitch 2.0 mm, powered) 2 x SATA 2.0 connectors, 1 x Front panel audio connector 1 x Audio amplifier connector, 1 x CPU Fan connector (4-pin) 1 x System Fan connector (3-pin), 1 x Digital IO header (2 x 4, pitch 2.0 mm)
Mechanical & Environmental	Power Requirement	CPU maximum supports to TDP 35W
	Power Type	ATX / AT
	Operating Temperature	0 - 60° C (32 - 140° F)
	Operating Humidity	0% - 90% relative humidity, non-condensing
	Size (L x W)	6.69" x 6.69" (170 x 170 mm)
Supported OS	PCB	8 layers
	Windows	Windows XP/ Windows 7

Board Diagram



Ordering Information

Part Number	Chipset	GbE	COM	VGA
GMB-RS780-00A1E	RS780E+SB710	2	4	2

Packing List

Description	Quantity
GMB-RS780 SBC	x1
Serial port Cable	x1
CPU cooler	x1
I/O port bracket	x1
Startup manual	x1
Driver CD	x1

Bracket View

