

SIMB-M22

AMD Mobile G-series Single Core Mini-ITX with VGA/LVDS/HDMI, 4 COM and Dual LAN



Features

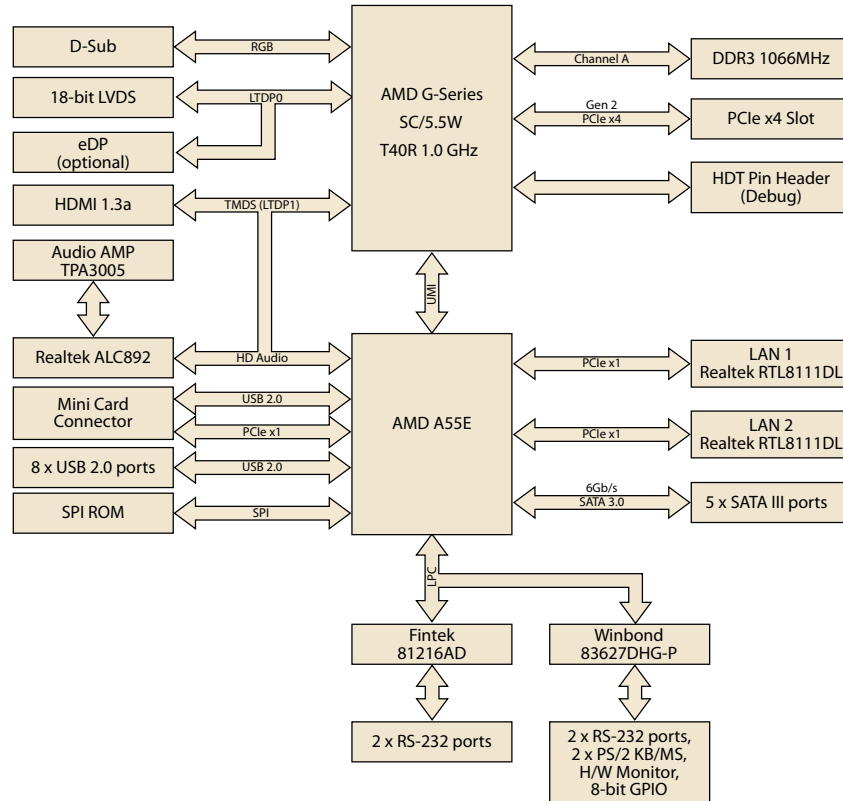
- The latest AMD G-Series APU supports 40 nm process technology
- Supports AMD controller hub A55E
- Fanless design
- AMD Radeon™ HD 6250 graphics engine supports HDMI 1.3a, DirectX 11, OpenGL 4.0, dedicated hardware (UVD 3.0) for H.264, VC-1, MPEG-2 and DivX decode
- One DDR3 1066 SODIMM, up to 4 GB
- Multiple display I/O supports versatile dual display functions: HDMI, VGA, 18-bit single channel LVDS, eDP (optional)
- Realtek ALC892 supports 5.1 + 2 channel HD audio
- Dual Realtek RTL8111DL Gigabit LAN
- 1 PCIe x4 Gen.2, 1 mini PCIe
- 5 SATA III (6 Gb/s) with RAID function
- 4 COM (2 powered COM), 8 USB 2.0



Specifications

Processor System	CPU	AMD Single Core T40R			
	Core Number	1			
	Max. Speed	1.0 GHz			
	L2 Cache	512 KB			
	Chipset	AMD A55E Controller Hub			
	BIOS	AMI EFI 16Mbit, SPI			
Expansion Slots	PCI	-			
	PCIe x4	1 GB/s per direction, 1 slot			
	PCIe	-			
	Mini-PCIe	1			
Memory	Technology	DDR3 1066/1333 MHz			
	Max. Capacity	4 GB			
	Socket	1 x 204-pin DIMM			
Graphics	Controller	AMD Radeon HD 6250			
	VRAM	Shared system memory up to 2 GB SDRAM			
	VGA	Supports up to 1920 x 1200			
	LVDS	Single channel 18-bit LVDS supports max resolution 1400 x 1050			
	HDMI	HDMI 1.3 supports max resolution 1920 x 1080			
	eDP	Supports up to 1920 x 1200 (Do not populated on MP version) (Optional)			
Ethernet	Dual Display	VGA + LVDS, VGA + HDMI, LVDS + HDMI			
	Interface	10/100/1000 Mbps			
	Controller	GbE-LAN1: Realtek RTL8111DL, GbE-LAN2: Realtek RTL8111DL			
SATA	Connector	RJ-45 x 2			
	Max Data Transfer Rate	600 MB/s			
SSD	Channel	5			
	CFast	Supports 1 CFast (Do not populated on MP version) (Optional)			
Rear I/O	VGA	1			
	Display Port	-			
	HDMI	1			
	Ethernet	2			
	USB	4			
	Audio	3 (Line-out, Line-in, Mic-in)			
	Serial	2 (RS-232)			
	PS/2	2 (1 x keyboard and 1 x mouse)			
Internal Connectors	LVDS & Inverter	1			
	DVI	-			
	USB	4			
	Serial	2 (RS-232)			
	IDE	-			
	SATA	5 (SATA III)			
	CFast	Supports 1 CFast (Do not populated on MP version) (Optional)			
	Parallel	-			
Watchdog Timer	GPIO	8-bit (4-bit DI and 4-bit DO)			
	Output	System reset			
Power Requirement	Interval	Programmable 1~ 255 sec/min			
	Power On	+12 V 0.73 A	+5 V 1.46 A	+3.3 V 0.44 A	5 Vsb 0.07 A
Environment	Temperature	Operating		Non-Operating	
		0 ~ 50° C (32 ~ 122° F)		-20 ~ 70° C (-4 ~ 158° F)	
Physical Characteristics	Dimensions	170 x 170 mm (6.69" x 6.69")			

Block Diagram



Ordering Information

P/N	VGA	GbE	USB	COM	SATA
SIMB-M22-2G2S0A1E	1	2	8 (4 Rear, 4 Internal)	4 RS-232 (2 Rear, 2 Internal)	5

Note: Minimum order quantity is 200 pieces

Packing List

Description	Quantity
SATA cable kit (SATA/POWER)	1
I/O shield	1
Startup manual	1 (per 20 units)
Driver CD	1 (per 20 units)

Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700008461	USB cable with two ports, 30.5 cm

I/O View

