



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

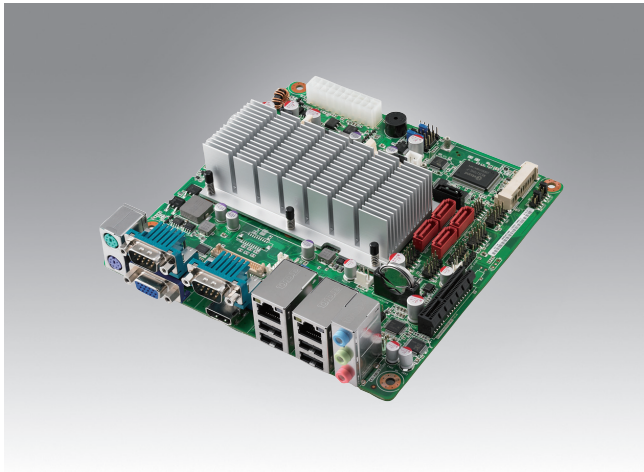
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# SIMB-M22

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



### Features

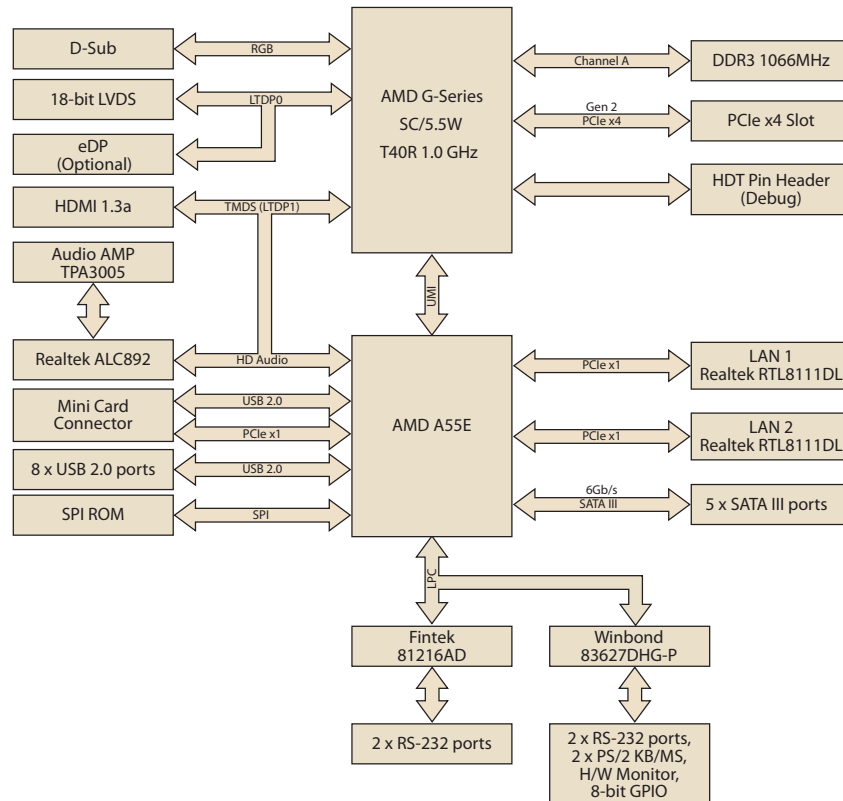
- The latest AMD G-Series APU supports 40 nm process technology
- Supports AMD controller hub A55E
- Fanless design
- AMD Radeon™ HD 6250 graphics engine supports HDMI 1.3a, DirectX 11, OpenGL 4.0, dedicated hardware (UVD 3.0) for H.264, VC-1, MPEG-2 and DivX decoder
- One DDR3 1066 SODIMM, up to 4 GB
- 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 0, 1, 5, 10
- 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 16Mbit, SPI					
Expansion Slots	PCI	-				
	PCIe x4	1 GB/s per direction, 1 slot				
	PCIe x1	-				
	Full-size 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	1, supports up to 1920 x 1200				
	LVDS	1, single channel 18-bit LVDS supports max resolution 1400 x 1050				
	HDMI	1, HDMI 1.3 supports max resolution 1920 x 1080				
	eDP	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	Optional				
Rear I/O	VGA	1				
	Display Port	-				
	HDMI	1				
	Ethernet	2				
	USB	4 (USB 2.0)				
	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 (USB 2.0)				
	Serial	2 (RS-232)				
	IDE	-				
	SATA	5 (SATA III)				
	CFast	Optional				
	Parallel	-				
	GPIO	8-bit (4-bit DI and 4-bit DO)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1~ 255 sec/min				
Power Requirements	Power On	+12 V	+5 V	+3.3 V	5 Vsb	-12 V
		0.73 A	1.46 A	0.44 A	0.07 A	0.06 A
	Environment	Temperature	Operating			
Physical Characteristics		0 - 50° C (32 - 122° F)				
	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 SATA III

Note: Minimum order quantity is 10 pieces

## Packing List

Description	Quantity
SATA cable kit (SATA/POWER)	1
I/O shield	1
Startup manual	1 (per 10 units)
Driver CD	1 (per 10 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
1700019549	COM port cable with bracket, 40 cm
1700021716-01	COM port cable w/o bracket, 10 cm

## I/O View

