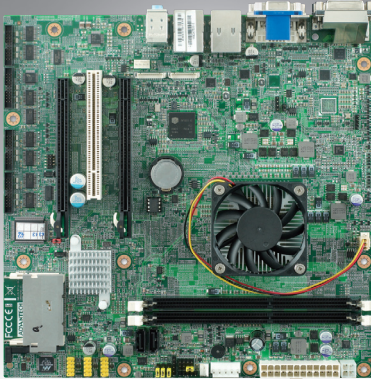


# GMB-A75

## AMD® R-series Micro-ATX Motherboard



### Features

- AMD R-Series dual/quad core platform
- Max. 6 display with micro-ATX single board
- Integrated AMD Radeon™ HD 7000 series GPU for 4 display
- Built-in SM 750 GPU to support extension 2 display
- Extended up to 2 PCIe x16 slot
- System memory up to 16 GB (DDR3)
- Comprehensive I/O: 2 x RJ45, 10 x USB (2.0/3.0), 8 x COM, 3 x VGA, 3 x DVI-D, CF card, and audio



### Introduction

The GMB-A75 is a complete AMD embedded platform. The 35W APU is integrated Radeon™ HD 7000 series GPU and support dual/quad core processor. With micro-ATX form factor, GMB-A75 supports 6 displays for flexible output combinations. We also provide 2 PCIe x16 slot to meet vary extension display requirements. A full feature set of I/O and COMs (maximum 10x USB 2.0/3.0, 8x COM port, and 1x CF slot) is an ideal replacement of your existing solution. GMB-A75 is your best choice of multiple display applications in gaming, amusement, signage, advertisement, kiosk, retail and surveillance markets.

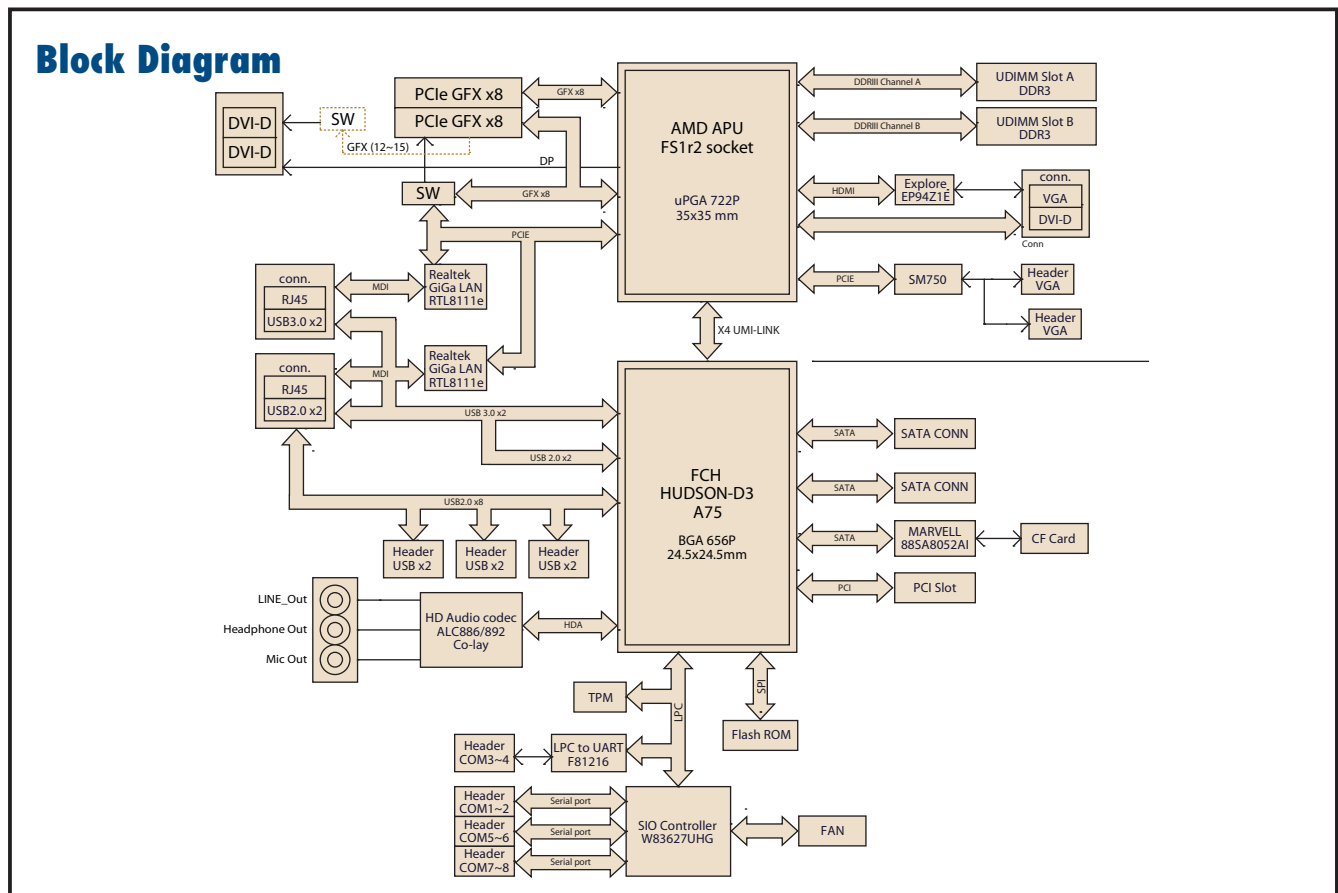
### Specifications

	APU	R-464L	R-460H	R-272F	R-268D
Processor System	APU	R-464L	R-460H	R-272F	R-268D
	Core Number	2.3 GHz	1.9 GHz	2.7 GHz	2.5 GHz
	L2 Cache	4	4	2	2
	Power Consumption	2 MB x2	2MB x2	1MB	1MB
	Package	TDP 35 W	FS1r2 (PGA)		
	Fusion Controller Hub	AMD A75			
System Memory	Technology	DDR3 1066/1333/1600 (non-ECC support)			
	Socket	2 x UDIMM 240 pin/dual channel			
	Max. Capacity	16 GB (8 GB/per DIMM)			
Expansion Slot	PCI	1 slot			
	PCIe x1 (Gen2)*	1 slot (through PCIe x16 slot)			
	PCIe x8 (Gen2)*	1 slot (through PCIe x16 slot)			
Integrated 2D/3D Display	Integrated Graphic Controller	AMD Radeon™ GPUs (Radeon™ HD 7000 series), support DX11, UVD3			
	HW Decoder	H.264, VC-1, MPEG-2, DivX			
	3D Feature	Direct X® 11, Open CL™ 1.1, OpenGL 4.2			
	DVI-D	x 3, supports up to 1920 x 1200 @ 60 Hz			
	VGA	x 1, supports up to 1920 x 1200 @ 60 Hz			
	Dual Display	Extend and clone mode			
Extension 2D Display (optional)	Integrated Graphic Controller	Silicon Motion SM750			
	2D Feature	128-bit 2D graphic engine			
	VGA	x 2, from pin header type supports up to 1920 x 1440 @ 60 Hz			
	Dual Display	Extend and clone mode			
Gigabit Ethernet	Chip	Realtek RTL8111E (LAN1 and LAN2) Gigabit Ethernet controller			
	Interface	RJ-45 x 2			
	Boot from LAN	Yes			
BIOS	BIOS Core	AMI 4MB SPI			
Security	HDD password	Yes (optional)			
Real I/O	DVI-D	3 x 24-Pin female D-sub connector			
	VGA	1 x 15pin DSUB Connector			
	USB	2 x Type-A connectors with USB2.0 2 x Type-A connectors with USB3.0 /USB2.0			
	LAN	2 x RJ-45			
	Audio	Triple STACK HD AUDIO JACK			
Internal I/O	COM	8 port, 2 x 10 pin header (2.0 mm)			
	USB	6 port, 5 x 2 pin header (2.54 mm) , USB 2.0 support			
	SATA	2 x SATA connector (support SATADOM power pin with Jumper) 1 x SATA PWR connector (1 x 5pin; 12 V/5 V/3.3 V)			
	PCI-Express	2 PCIe x16 slot			
	PCI	1 PCI slot			
	Compact Flash	1 CF card connector			

## Specifications Cont.

Power	Power Requirement (max.)	+12 V 12 A	+5 V 10.5 A	+3.3 V 12.5 A	5 VSB 1 A
	Power Type	ATX (supports AT mode)			
	Power Connector	1 x 24-pin ATX Power Connector 1 x 4-pin ATX 12V Power Connector			
Environment	Dimension	244 x 244 mm			
	Operating Temperature	0 ~ 60° C			
	Storage Temperature	-20 ~ 80° C			

\*GMB-A75 could support two PCIe x8 with Jumper setting but there will only 3 display output available (2 DVI-D + 1 VGA)



## Ordering Information

Part Number	Chipset	Memory	Extension Display	DVI-D	VGA	USB	COM	GbE LAN
	A75	Non-ECC	SMI 750	3	3	10	8	2
	A75	Non-ECC	w/o SMI 750	3	1	10	8	2

## Packing List

Part Number	Description	Quantity
	COM port Cable	4
	VGA Cable	1
1703150102	SATA power Cable	1
	SATA cable	2
	I/O port bracket	1
	Startup manual	1



## Design & Manufacturing Services

ODM products are designed for customers with consistent order and specific design requirements. ODM products are subject to minimum annual order quantities and engineering charges. Evaluation units are available without such restrictions. Advantech has a dedicated project team to serve ODM customers.

**For sales inquiries and further information, please contact:**  
Gaming@advantech.com.tw

## Optional Accessories

Part Number	Description
1700002204	Dual port USB cable (27 cm) with bracket
1960055684N00	35W CPU cooler