

GMB-U75

AMD® R-series Multi-display System



Features

- All-in-one high performance system
- Built-in micro-ATX Motherboard with AMD Dual/Quad core Processor
- Integrated AMD Radeon™ HD 7000 series GPU Core and SM750 GPU to support multiple displays
- Supports 2 PCIe x16 slots and 1 PCI slot for external feature use
- Comprehensive I/O: 2 x RJ45, 10 x USB (2.0/3.0), 8 x COM, 3 x VGA, 3 x DVI-D, CF and audio



Introduction

The GMB-U75 is a high performance embedded system that offers the best graphic performance in a long-lived, multi-display solution. Multiple display I/Os can support up to 6 independent display outputs. Comprehensive I/Os support gaming, amusement, signage, kiosk and retail applications.

Specifications

Processor System	CPU	AMD R-series Processor R-464L (2.3 GHz QC) / R460H (1.9 GHz QC) / R-272F (2.7 GHz DC) / R-268D (2.5 GHz DC)
	Chipset	AMD A75 Controller Hub
	BIOS	AMI 4 MB SPI Flash
Memory	Technology	Dual Channel DDR3 1600/1333/1066 MHz (non-ECC support)
	Max. Capacity	Up to 16GB
	Socket	2 x 240-pin UDIMM
Graphics (AMD)	2D/3D Engine	AMD Radeon 7000 series GPU Core, support DX11
	Resolution	VGA: 1920 x 1200 @ 60 Hz DVI-D: up to 1920 x 1200 @ 60 Hz
	Dual Display	Independent / Clone Mode
Graphics (SMI) (Optional)	2D Engine	Silicon Motion SM750
	VRAM	16 Mb of dedicated DDR memory
	Resolution	VGA: 1920 x 1440 @ 60 Hz
	Dual Display	VGA + VGA Support: Direct Draw (2D only), Couldn't support 3D, Direct X & Open VG
Ethernet	LAN1	10/100/1000 Mbps Realtek 8111E support Wake On LAN
	LAN2	10/100/1000 Mbps Realtek 8111E support Wake On LAN
Audio	Phone Jack	Mic-in, Line-in, Line-out
SATA Storage	Max Data Transfer Rate	600 MB/s (SATA 3.0)
	HDD/SSD	Supports one drive bay space for SATA 2.5" HDD/SSD
IDE Storage	CF	Supports Compact Flash Type I/II
Expansion	PCI	x 1 Slot
	PCIe x1(Gen 2)*	x 1 Slot (through PCIe x16 slot)
	PCIe x8(Gen 2)*	x 1 Slot (through PCIe x16 slot)
Rear IO	VGA	x 3
	DVI-D	x 3
	RJ-45	x 2
	USB2.0	x 2
	USB2.0/3.0	x 2
	Audio	x 3 (Line out , Line in , Mic in)
Software Support	Microsoft Windows	XP Professional, XP Embedded , Win7 , Win7 Embedded
	Power Type	ATX 24+4 Pin Power connector with external PSU**
Power Consumption	Max.***	< 250 W (Depend on System configuration)
Mechanical	Construction	SECC housing
	Mounting	wall-mounting (optional)
	Dimensions (W x H x D)	280 x 280 x 100 (mm)
	Weight	4kg (8.8 lb)
Environment	Operating Temperature	0 ~ 40° C (32 ~ 104° F)
	Storage Temperature	- 20 ~ 70° C (-4 ~158° F)
	Relative Humidity	10 ~ 85% @ 40° C, non-condensing
	EMC	CE, FCC, CCC (by request)
	Safety Certifications	CB, UL ,CCC(by request)

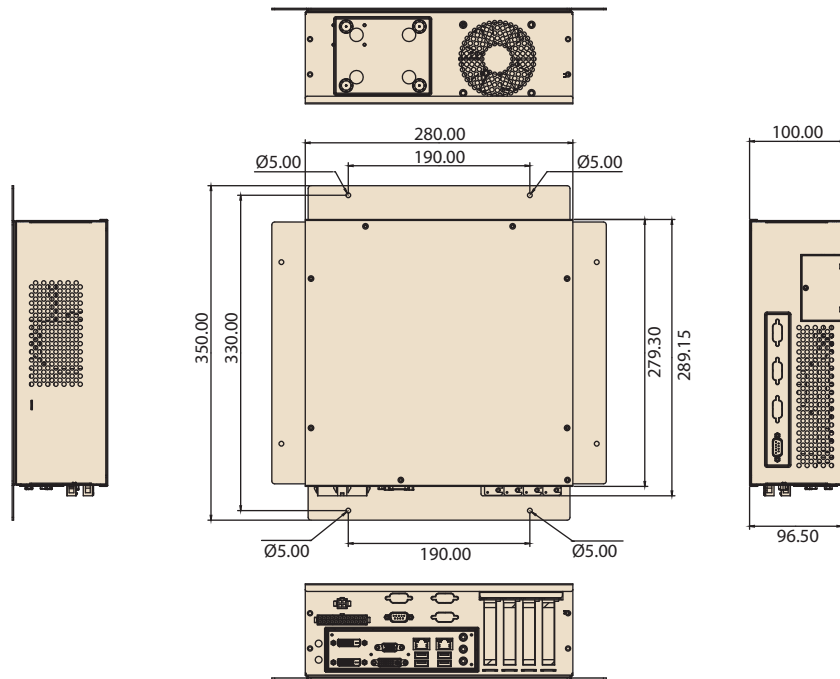
* GMB-u75 could support two PCIe x8 with jumper setting but there will only support 3 display output (2 DVI-D + 1 VGA)

** Suggest using Advantech-recommended power supply.

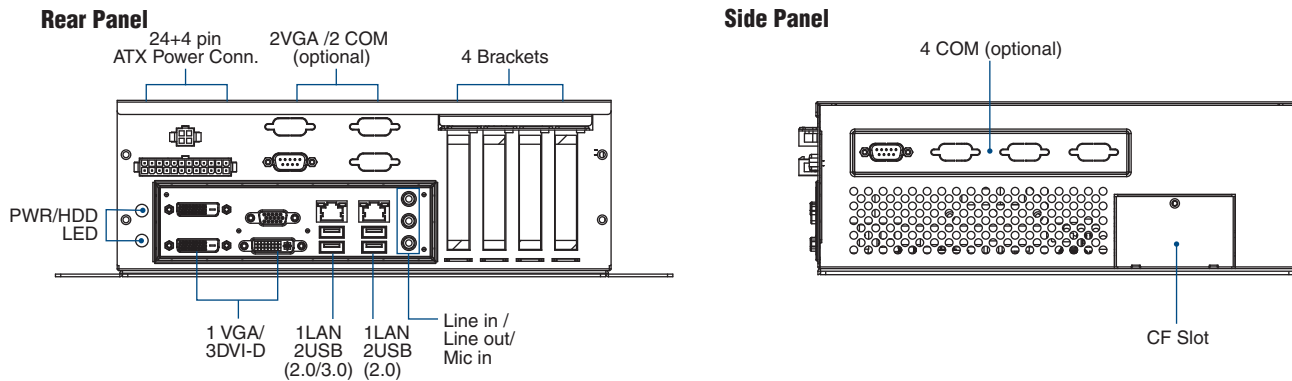
*** Max power consumption is base on Advantech's test configuration and is subject to change.

Dimensions

Unit: mm



Rear and Side Panel I/O Drawing



Design & Manufacturing Services

ODM products are designed for customers with consistent orders 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.

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