Intelligent Multi-display Computing

for the best visual experience

- Gaming
- Advertisement
- Display Wall
- Kiosk
- Retail

ADVANTECH

Enabling an Intelligent Planet

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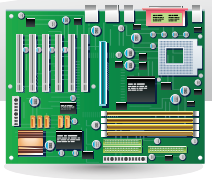
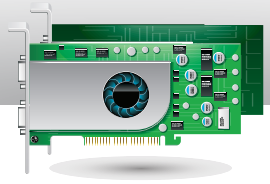
Display Configuration

GMB series products focus on multi-display applications, and provide a variety of display and I/O options. Systems with built-in AMD Radeon™ GPUs provide the best graphic performance. 2 PCIex16 slots alliance with APU support superior graphics throughput and provide additional display solutions. Flexible display configurations for 4, 8, or 12 independent displays support multi-display applications such as gaming, advertisement, display walls, kiosks, and retail markets. Multiple I/O choices (COM Port, USB Port, etc.) offer additional options.



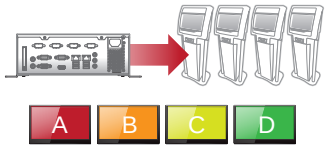
GMB Motherboard

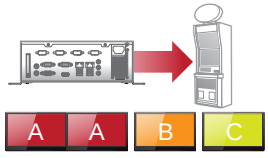


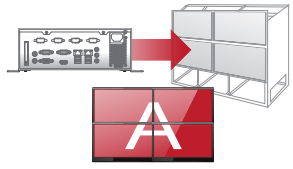
PCIex16 Graphic Card

Touchscreen

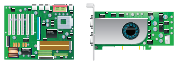
4-display

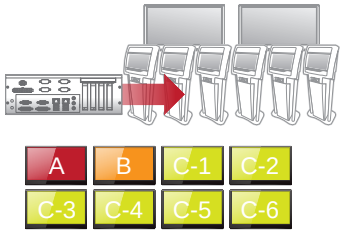


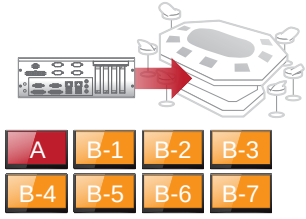


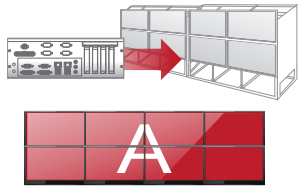


8-display

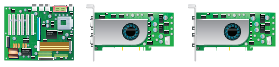


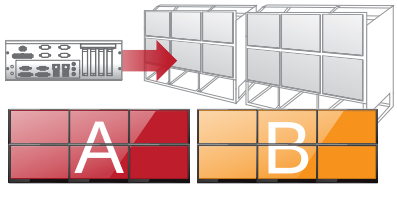


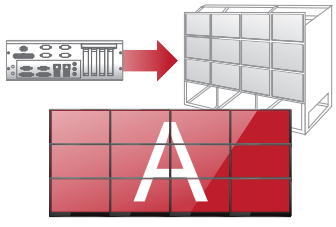




12-display







Applications

GMB multi-display systems are ideal for all your basic system requirements, offering the best balance of cost, performance and longevity. Multiple display I/O supports display solutions up to 12 independent outputs. Comprehensive I/Os and multi display applications are available for gaming, advertisement, display walls, kiosks and retail markets.

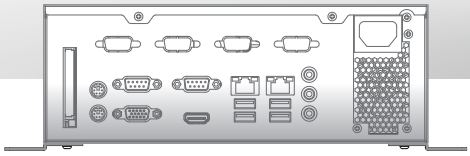
Scenario

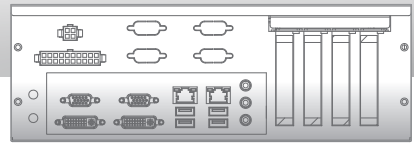
Customization and Design Services

Advantech has decades of experience in IPC design & manufacturing service. In addition to basic requirements, we also provide system customization and validation services to meet customer needs.

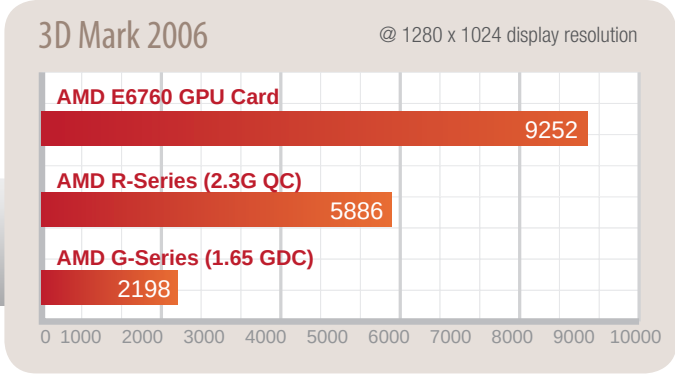
- GPU card selection
- Flexible IO application
- Chassis design
- Custom BIOS
- Thermal simulation
- EMC/Safety service

Products





Feature		GMB-iSystem	GMB-uSystem
GMB-uSystem	CPU	T56N : 1.65GHz Dual Core T40R : 1.0GHz Single Core	R-464L : 2.3 GHz Quad Core R-460H : 1.9 GHz Quad Core R-272F : 2.7 GHz Dual Core R-268D : 2.5 GHz Dual Core
	Chipset	A55E	A75M
	BIOS	AMI 16 Mb SPI Flash	AMI 8 Mb SPI Flash
Memory	Technology	Single Channel DDR3 1333/1066 MHz (non-ECC support)	Dual channel DDR3 1600/1333/1066 MHz (non-ECC support)
	Max. Capacity	Up to 4GB	Up to 16GB
	Socket	1 x 204-pin SODIMM	2 x 240-pin UDIMM
Graphics (AMD)	2D/3D Engine	Radeon HD 6000 series GPU Core, support DX11	Radeon 7000 series GPU Core, support DX11
	Resolution	VGA : T56N : up to 2048 x 1536 @ 60Hz T40R : up to 1920 x 1200 @ 60Hz HDMI : 1.3a support up to 1920 x 1200 @60Hz	VGA : 1920 x 1200 @ 60Hz DVI-D : up to 1920 x 1200 @ 60Hz
	Multi –Display support	Independent/Clone mode	
Graphics (SMI)	2D Engine	Silicon Motion SM750	
	VRAM	16 Mb of dedicated DDR memory	
	Resolution	VGA :1920 x 1440, up to 75Hz vertical rate	
	Dual Display	VGA + VGA Support : Direct Draw (2D only), Couldn't support 3D, Direct X & Open VG.	
Ethernet	LAN1	10/100/1000 Mbps Realtek 8111DL	10/100/1000 Mbps Realtek 8111E
	LAN2	10/100/1000 Mbps Realtek 8111DL	10/100/1000 Mbps Realtek 8111E
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	
IDE Storage	CF	Supports Compact Flash Type I/II	
Expansion	PCI Slot	-	x 1
	PCIe x 16	-	x 2
	PCIe x 4	x 1	-
	PCIe x 1	-	-



Feature		GMB-iSystem	GMB-uSystem
Rear I/O	VGA	x 3	x 4
	HDMI/DVI	x 1 (DVI w/ adaptor)	x 2 DVI-D
	RJ-45	x 2	x 2
	USB2.0	x 4	x 2 (total 8 ports)
	USB3.0	-	x 2
	Audio	x 3 (Line out, Line in, Mic in)	x 3 (Line out, Line in, Mic in)
	PS/2	Keyboard/ Mouse	-
	COM	x 4	x 8 (max.)
Software Support	Microsoft Windows	XP Professional, XP Embedded	XP Professional, XP Embedded Win 7, Win7 Embedded
Power		Built-in 100W Power supply	ATX 24+4 Pin Power connector with external PSU *
Power Consumption	Max. **	< 100W	< 250W (w/o PCI & PCIe card)
Mechanical	Construction	SECC housing	
	Dimensions (W x H x D)	297 x 219 x 93.5 (mm)	300 x 300 x110 (mm)
	Weight	3.5 kg (7.7 lb)	4 kg (8.8 lb)
	Operating Temperature	0 ~ 40° C (32 ~ 104° F)	
	Storage Temperature	- 20 ~ 70° C (-4 ~158° F)	
	Relative Humidity	10 ~ 85% @ 40° C, non-condensing	
	Vibration Loading During Operation	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis	
	Shock (Operation)	IEC 60068-2-27, 11 ms duration	
	EMC	CE, FCC, CCC (by request)	
	Safety Certifications	CB, UL,CCC (by request)	

* Suggest using Advantech-recommended power supply.
** Max power consumption is based on Advantech's test configuration and is subject to change.

Advantech Global Services

Advantech can help you get the most out of your technology investments through customized design, manufacturing, quality assurance, logistics, and after-sales support. With our highly trained experts and comprehensive global network, Advantech Global Services supports customers around the world to maximize business success.
Advantech Global Services offer:

Flexibility Total solution approach backed by global network

Capability Design and local customization

Reliability Solid infrastructure and quality assurance

Efficiency Efficiency – One-stop shopping solutions

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

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