

AIMB-225

AMD G-series Quad Core Mini-ITX with DVI-I/LVDS/DP++/eDP, 5 COM, and Dual LAN

NEW



susiAccess

Features

- Supports AMD Stepe Eagle Quad core processor
- Two 204-pin SO-DIMM up to 16GB DDR3L 1600 SDRAM
- Supports dual display with DVI-I+LVDS, DVI-I+DP, eDP+LVDS and eDP+DP
- Supports 1 PCIe x4 and 2 Mini-PCIe expansion slots
- 5 COM, 6 USB 2.0, 2 USB 3.0
- Supports SUSIAccess and Embedded Software APIs

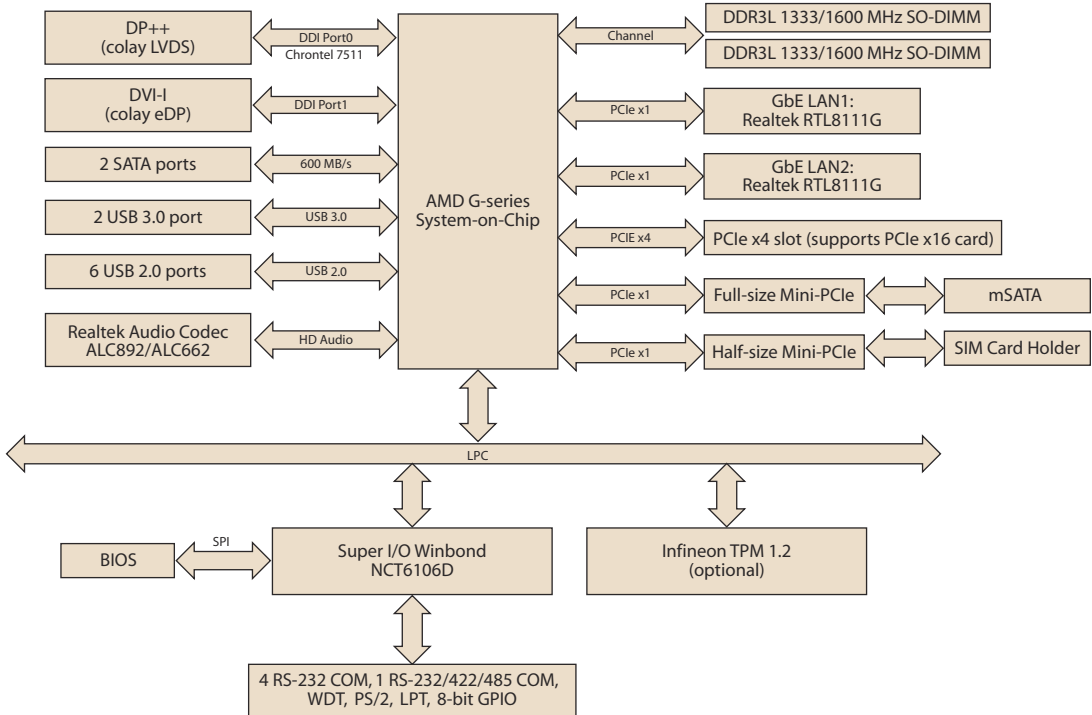
Software APIs:

Utilities:

Specifications

Processor System	SOC (28nm)	AMD Quad Core GX-424CC	AMD Quad Core GX-412HC
	Max. Speed	2.4GHz (Quad Core 25W)	1.2GHz (Quad Core 7W)
	L2 Cache	2 Mb	2 Mb
	BIOS	AMI 16 Mbit SPI	AMI 16 Mbit SPI
Expansion Slot	PCI	None	
	Mini-PCIe	2, F/S x 1 support mSATA, H/S x 1 with SIM card holder	
Memory	Technology	Single channel DDR3L 1333/1600 MHz SDRAM	
	Max. Capacity	16 GB/8 GB per SO-DIMM	
	Socket	2 x 204-pin SO-DIMM (Non-ECC)	
	Controller	AMD Radeon™ R5E/R3E Graphics	
Graphics	VRAM	None	
	DVI-I	1, supports up to SXGA 1920 x 1200, colay eDP	
	LVDS	1, supports dual channel 48-bit up to 1920 x 1200, colay DP 1.2 port	
	Display Port 1.2	1, Supports DP++, resolution up to 2560 x 1600 x 24bpp @ 60Hz, colay LVDS	
	Dual Display	DVI-I+LVDS, DVI-I+DP, eDP+LVDS and eDP+DP, supports extended mode and clone mode	
Ethernet	Interface	10/100/1000 Mbps	
	Controller	GbE LAN1: Realtek 8111G GbE LAN2: Realtek 8111G	
	Connector	RJ-45 x 2	
SATA	Max Data Transfer Rate	600 MB/s	
	Channel	2, SATA 2 colay mSATA (optional); SATA 1 support SATA-DOM device	
Rear I/O	DVI-I	1	
	DP1.2	1	
	Ethernet	2	
	USB	4 (2 x USB 2.0/2 x USB 3.0)	
	Audio	1 (supports Line out, converts to Mic in or Line in)	
	DC jack	1 (2.5 mm)	
Internal Connector	LVDS & Inverter	1/1	
	eDP	1	
	USB	4 (USB 2.0 compliant)	
	Serial	5 (4 x RS-232, 1 x RS-232/422/485; COM 1 support RS-232/422/485 auto flow control; COM 5 support 5V/12V by jumper selection)	
	IDE	None	
	SATA	2	
	SATA PWR Connector	2	
	Parallel	1	
	PS/2 KB & MS	1	
Watchdog Timer	GPIO	8-bit	
	Output	System reset	
Power	Interval	Programmable 1 ~ 255 sec/min	
	Power Type	Single voltage 12V DC input; 1 x External DC jack; 1 x Internal 4-pin (2x2) power connector; Supports AT/ATX mode	
Environment	Typical Power Consumption	12 V @ 1.89A (AMD GX-424 2.4 GHz processor/DDR3L 1600 MHz 8 GB x 2/SATA HDD x 1)	
	Operating	Non-Operating	
Physical Characteristics	Temperature	0 ~ 60° C (32 ~ 140° F)	
	Dimensions	170 mm x 170 mm (6.69" x 6.69")	

Block Diagram



Ordering Information

Part Number	CPU	Display	TPM	GbE	SATA	COM	Thermal Solution
AIMB-225G2-00A1E	GX-424CC	DVI-I/eDP, DP++/LVDS	(1)	2	2	5	Active
AIMB-225G2-01A1E	GX-412HC	DVI-I/eDP, DP++/LVDS	(1)	2	2	5	Passive
AIMB-225G2-02A1E	GX-222GC	DVI-I/eDP, DP++/LVDS	(1)	2	2	5	Active

Note: Passive = fanless; Active = with fan
 *() BOM options available on MP version.

Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	1
1700018785	SATA power cable	1
1700008876	1-to-4 serial ports cable kit, 35 cm	1
1700100250	1-to-1 serial ports cable kit, 25 cm	1
19Z0000769T000	I/O port bracket	1
2006022510	Startup manual	1
2066022500	Driver CD	1
1960054541N021	Cooler 60*60*27.1 for AIMB-225G2-00A1E	1
1960062823N001	Heatsink 87.65x60x20 for AIMB-225G2-01A1E	1
1960061914N001	Cooler I-Haswell-S-15W 60x60x26.5 for AIMB-225G2-02A1E	1

Optional Accessories

Part Number	Description
1700024884-01	USB cable with two ports/BKT, 25 cm
1703100121	USB cable with 2 ports/BKT, 12 cm
1703060191	A Cable 1*6P-2.0/M-DIN 6P(F)*2 19cm
96PSA-A84W12V1	ADAPTER AC100-240V 84W +12V/7A (FSP)
96PSA-A60W12V1-1	ADAPTER AC100-240V 60W +12V/5A (FSP)
1700001524	Power cable 3-pin 180 cm, USA type
170203183C	Power cable 3-pin 180 cm, Europe type
170203180A	Power cable 3-pin 180 cm, UK type
1700008921	Power cable 3-pin PSE Mark 183 cm
1700260250	Printer port cable, 25 cm

I/O View



Optional Chassis

Part Number	Description
AIMB-B2000-00YE	Mini-ITX chassis with optional DC adapter
AIMB-T1000A-00Y1E	Mini-ITX chassis with optional DC adapter