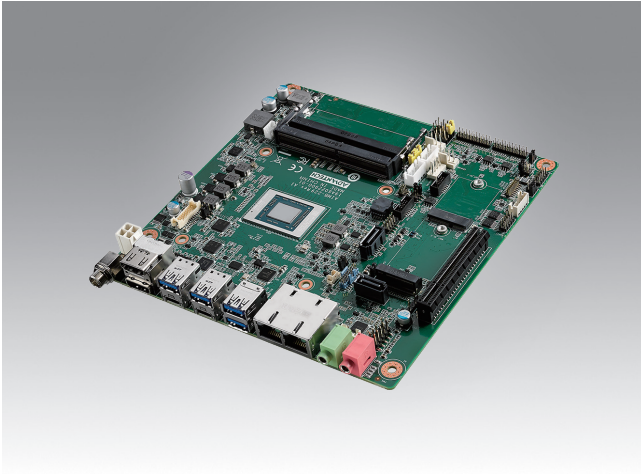


AIMB-229

AMD V-series mini-ITX with 2HDMI/2DP/8USB/6COM/2Gb/2M.2



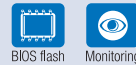
Features

- Support AMD V2000 processor
- Two 260-pin SO-DIMM up to 64GB DDR4 3200 SDRAM
- Support multi display, Max up to 4 displays
- Supports 1 PCIe x8, 1 E-Key 2230 M.2 slot, 1 M-Key 2242/3043/2280 M.2 slot
- 6COM, 3 USB3.2 Gen2, 3 USB3.2 Gen1, 2 USB2.0, 2 SATA, 16bit GPIO
- Support SUSI, WISE-DeviceOn and Edge AI Suite

Software APIs:



Utilities:

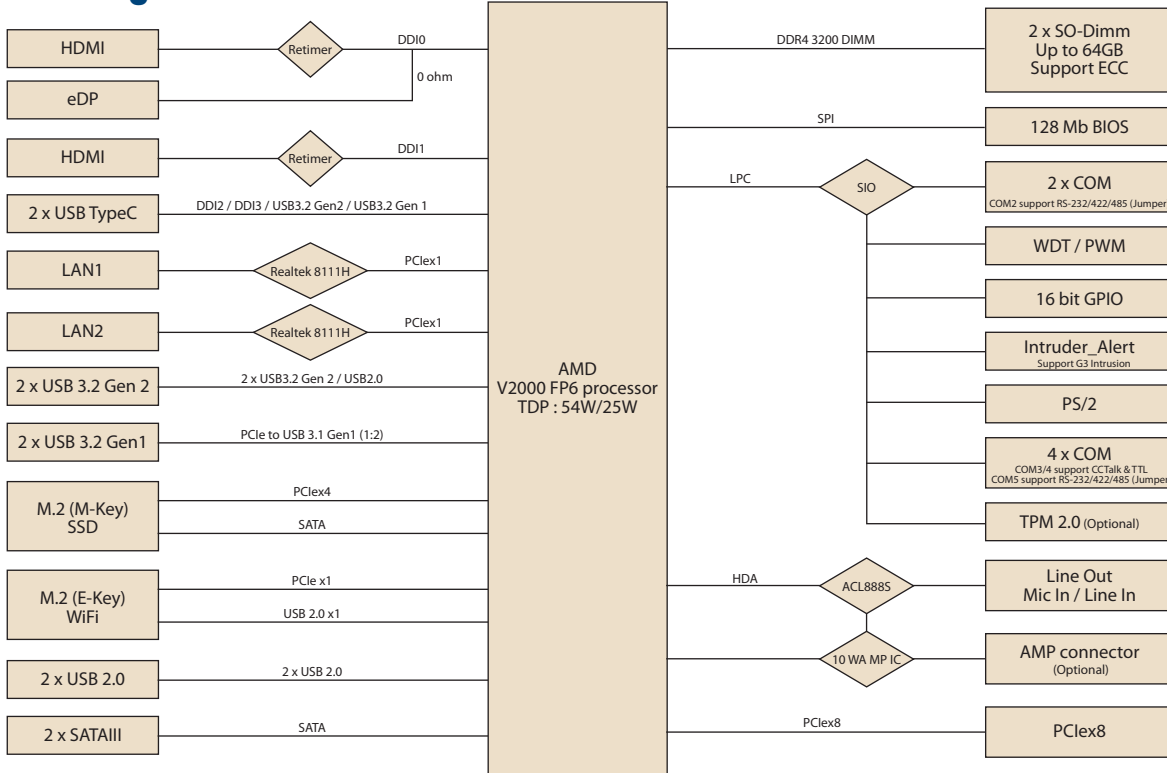


WISE-PaaS/RMM CE FCC RoHS COMPLIANT

Specifications

Processor System	SOC (7nm)	V2748	V2516	V2718	V2516	
	Max. Speed	4.15Ghz (8 Core 54W)	3.95Ghz (6 Core 54W)	4.15Ghz (8 Core 25W)	3.95Ghz (6 Core 25W)	
	L2 Cache	4Mb	4Mb	4Mb	4Mb	
	BIOS	AMI 128Mbit SPI				
Expansion Slot	M.2	1 M-Key (support 2242/3042/2280), 1 E-Key (support 2230)				
	PCIe	1 PCIe x8				
Memory	Technology	Dual Channel DDR4 3200MHz SDRAM				
	Max. Capacity	64 GB/ 32 GB per SO-DIMM				
	Socket	2 x 260-pin DDR4 SO-SIMM with ECC Support				
Graphics	Controller	AMD Integrated Vega GCN				
	eDP	1, resolution up to 5120x2880@60Hz Max (Optional)				
	Display Port 1.2	2, Supports DP++, resolution up to 4096 x 2160 @ 60Hz				
	HDMI 1.4	2, resolution up to 4096x2160@60Hz (Optional support HDMI 2.0)				
	Multi Display	HDMI/HDMI/DP/DP eDP/HDMI/DP/DP				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	GbE LAN1: Realtek 8111H GbE LAN2: Realtek 8111H				
	Connector	RJ-45 x 2				
SATA	Max Data Transfer Rate	600 MB/s				
	Channel	2, SATA III				
Rear I/O	DP++ Type-C	2				
	Ethernet	2				
	HDMI	2				
	USB	3 x USB3.2 Gen2/3 x USB3.2 Gen1				
	Audio	2 (Line out + Mic/Line in)				
	DC jack	1 (2.5 mm)				
	eDP (Optional)	1				
Internal Connector	USB	2 x USB2.0				
	Serial	6, COM1: support RS-232 with 5V/12V/Ring COM2: support RS-232/422/485 supports 9 bit data/auto flow(select by Jumper) COM3: Colay Cctalk(5/12V; Jumper select) ; signal mix with RS232 COM4: support 5V/12V selection(by jumper); Colay TTL (5V, TX, RX only) ; signal mix with RS232 COM5: support RS-232/422/485 supports 9 bit data/auto flow(select by Jumper) COM6: RS-232				
	SATA	2				
	SATA PWR Connector	2				
	PS/2 KB & MS	1				
	Intrusion Protection	1				
	GPIO	16 bit				
	Watchdog Timer	Output	System reset			
		Interval	Programmable 1 ~ 255 sec/min			
	Power	Power Type	12V DC input; 1 x External DC jack; 1 x Internal 4-pin (2x2) power connector; Supports AT/ATX mode			
Typical Power Consumption		TBD				
Environment		Operating		Non-Operating		
	Temperature	0 ~ 60 °C (32 ~ 140 °F)		-40 ~ 85 °C (-40 ~ 185 °F)		
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")				

Block Diagram



Ordering Information

P/N	Chipset	HDMI 1.4	eDP	DP 1.2	GbE LAN	COM	SATAIII	USB3.2 Gen2	USB3.2 Gen1	USB2.0	M.2	PClex8	TPM	AMP
AIMB-229VG2-00A1E	V2748	2	(1)	2	2	6	2	3	3	2	2	1	1	1
AIMB-229VG2-01A1E	V2546	2	(1)	2	2	6	2	3	3	2	2	1	(1)	(1)
AIMB-229VG2-02A1E	V2718	2	(1)	2	2	6	2	3	3	2	2	1	(1)	(1)
AIMB-229VG2-03A1E	V2516	2	(1)	(2)	2	6	2	2	2	2	2	1	(1)	(1)

*() BOM options available on MP version.

Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	1
1700018785	SATA power cable (1 port, 25cm)	1
TBD	I/O port bracket	1
TBD	Startup manual	1
1960089783T001	CPU Cooler (CPU TDP 54W, V2748/V2546)	1
1960089784T001	CPU Cooler (CPU TDP 25W, V2718/V2516)	1

Optional Chassis

Part Number	Description
AIMB-B2000-00YE	AIMB-B2000 wallmount chassis w/o adaptor

I/O View

Optional Accessories

Part Number	Description

Embedded OS

OS	Part No.	968 P/N	Description