

AIMB-2211

Mini-ITX Motherboard AMD Ryzen™ Embedded P100 Series Processor

Coming Soon

Features

- AMD Ryzen™ Embedded P100 Series Processor
- Up to 128GB DDR5 5600MT/s with two SO-DIMM
- Four independent display
- 2 M.2 expansion slots, 4 COM, 1 x USB4 Type-C, 3 USB 3.2 Gen2x1, 2 USB 3.2 Gen1x1 and 1 PCIe x8 Gen4
- Supports 12-24V wide voltage DC-In (tolerance: -10% / +20%)
- Windows 11 LTSC & Ubuntu 24.04 LTS; SUSI API and WISE-DeviceOn

Software APIs:



Utilities:



Specifications

Processor System	SoC	AMD Ryzen AI Embedded P100 series		
	Cores	Up to 12 cores		
	Base freq. (GHz)	Up to 5.1 GHz		
	L2 Cache (MB)	1 MB		
	L3 Cache (MB)	Up to 8 MB + 16 MB		
	TDP	Up to 54 W		
	NPU	XDNA2 Architecture, up to 50 TOPs		
	Chipset	AMD B650		
	BIOS	AMI EFI 256 Mbit SPI		
Expansion Slot	M.2	1 x M-key for SSD, 1 x E-key for wireless module (WiFi/BT)		
	PCIe	1 x PCIe x8 Gen4		
Memory	Technology	Dual channel DDR5 5600 MT/s		
	Max. Capacity	Up to 128 GB		
	Socket	2 x 262pin SO-DIMM		
Graphics	Controller	AMD RDNA 3.5 Radeon Graphics		
	DP	4DP (1 via USB4 Type-C), up to 4096x2304 @ 60Hz		
	eDP	1 up to 4096x2304 @ 60Hz		
	Multi Displays	4 independent display		
Network	Ethernet	10/100/1000/2500 Mbps		
	Controller	RTL8111K (1GbE) default, RTL8125BG (2.5GbE) by option		
	Connector	2 x RJ45		
Audio	Codec	Realtek ALC888S, High Definition Audio (HD), Line out, Mic-in		
	Amplifier	Yes, Max. 3W		
SATA	Max data transfer rate	6.0 Gb/s		
	Channel	1 (SATA III)		
Rear I/O	DP	3		
	Ethernet	2		
	USB	3 x USB 3.2 Gen2x1 and 1 x USB4 Type-C		
	Audio	1 (Line-Out, Mic-In)		
Internal Connector	USB	2 x USB 3.2 Gen1 x1		
	LVDS/eDP	1 x eDP		
	Serial	4,		COM1: Support RS-232 (RI Power 5V/12V)
				COM2: Support RS-232/422/485, by BOM option
				COM3: Support RS-232 (CCTalk by BOM option)
				COM4: Support RS-232 (TTL, RI Power 5V/12V by BOM option)
	SATA	1		
M.2	1 x M-key (2280, for SSD)			
GPIO	1 x E-key (2230, for WiFi/BT)			
Watchdog Timer	Output	System reset		
	Interval	Programmable 1 ~ 255 (second or minute)		
Power Requirements	Input voltage	12-24V DC-in (tolerance: -10% / +20%)		
	Connector	DC Jack, Internal 4-pin ATX		
	Power consumption	Configuration	TBC	
		Max.	TBC	
Typical		TBC		
Environment	Temperature	Operating: 0 ~ 60 °C (32 ~ 140 °F)		
	Storage	Non-Operating: -40 ~ 85 °C (-40 ~ 185 °F)		
Physical Characteristics	Dimensions	170 mm x 170 mm (6.69" x 6.69")		

