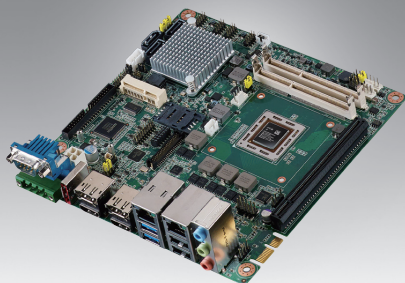


AIMB-226

AMD R-series Quad Core/Dual Core Mini-ITX with HDMI/LVDS/DP++, 6 COM and Dual LAN

NEW



Features

- Supports AMD Mobile Bald Eagle Quad core/Dual Core processor
- Two 204-pin SO-DIMM up to 16 GB DDR3 2133/1600 MHz SDRAM
- Supports 4 independent display with HDMI/LVDS/Dual DP++(DP1.2)
- Dual LANs, 6 COM, 2 Mini PCIe
- Supports embedded software APIs and Utilities

Software APIs:



Utilities:



Windows Embedded

CE FCC RoHS

Specifications

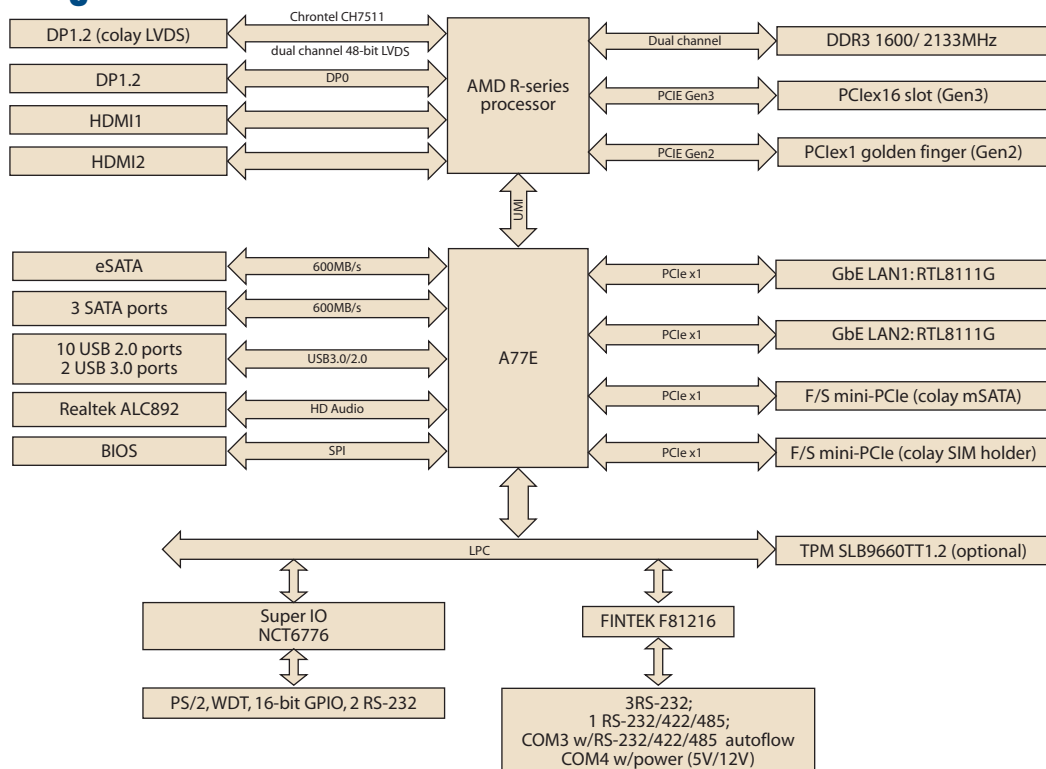
Processor System	CPU	AMD Quad Core RX-427BB	AMD Dual Core RX-225FB
	Max. Speed	2.7 GHz (Quad core 35W)	2.2 GHz (dual core 17W)
	L2 Cache	2MB cache per core	
	Chipset	AMD R-series+A77E	
	BIOS	AMI EFI 64 Mbit SPI	
Expansion Slot	PCI	None	
	Mini-PCIe	2 F/S colay mSATA/SIM holder	
	PCIe	PClex1 with golden finger, PClex16 with slot	
Memory	Technology	Dual Channel DDR3 2133/1600 MHz	
	Max. Capacity	16 GB/8 GB per SO-DIMM	
	Socket	2 x 204-pin SO-DIMM (Non-ECC)	
Graphics	Controller	AMD Radeon™ HD 9000, support DX11, UVD4.2	
	VRAM	None	
	HDMI	2, supports up to 4096 x 2160 @ 24Hz, 3840 x 1260 @ 30Hz, 1920 x 1080p/i @ 60Hz (HDMI 1.4b)	
	LVDS	1, supports single channel 24-bit/ dual channel 48-bit LVDS up to 1900x 1200 (co-lay DP1, by BOM option)	
	DP++	2, support DP1.2 with 2560 x 1600 @ 60Hz or 3840 x 2160 @ 30Hz, DP1 co-lay LVDS	
	Multiple Display	4 independ display by DP(LVDS) / HDMI	
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	4	
Rear I/O	HDMI	2	
	DP1.2 port	2	
	Ethernet	2	
	USB	4 (2 USB 3.0+ 2 USB 2.0)	
	Audio	3 (Mic-in, Line-out, Line-in)	
	DCjack	1 (4pin phoenix connector)	
Internal Connector	eSATA	1	
	LVDS & Inverter	1 (by BOM optional)	
	USB	8 (USB 2.0)	
	Serial	6 (5 RS-232, 1 RS-232/422/485; COM4 support 5V/12V power, COM3 RS-232/422/485 auto flow control)	
	IDE	None	
	SATA	3 SATA III port	
	Parallel	None	
Watchdog Timer	GPIO	16-bit	
	Output	System reset	
Power Requirement	Interval	Programmable 1 ~ 255 sec/min	
	Typical	Single Voltage 12V DC input by 1x external Phoenix 4pin power connector or 1x internal 2x2-pin power connector; support AT/ATX mode by Jumper	
Environment	Operating		Non-Operating
	Temperature	0 ~ 60° C (32 ~ 140° F)	-40 ~ 85° C (-40 ~ 185° F)
Physical Characteristics	Dimensions	170 x 170 mm (6.69" x 6.69")	

ADVANTECH Industrial Motherboards & Systems

All product specifications are subject to change without notice

Last updated : 1-Dec-2015

Block Diagram



Ordering Information

Part Number	Chipset	Display	LAN	COM	TPM
AIMB-226G2-00A1E	RX-427BB	HDMI/DP (LVDS)	2	6	Yes (optional)
AIMB-226G2-01A1E	RX-225FB	HDMI/DP (LVDS)	2	6	Yes (optional)

Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	3
1700018785	SATA power cable	1
1700008876	1-to-4 serial ports cable kit, 35 cm	1
1700024161-01	1-to-1 serial ports cable kit, 30 cm	1
1960061914N001	CPU cooler	1
19Z0000899T000	IO port bracket	1
2006B22610	Startup manual	1

I/O View



Optional Accessories

Part Number	Description
17AD14GS0000063V04	USB 2Ports cable w/o bracket, 25cm
1700024884-01	USB 2Ports cable with bracket, 25cm
1700023474-01	USB cable with two ports for AIMB-B2000, 34.5cm
1700000596	Power cable 3-pin 183cm, China type
1702031801	Power cable 3-pin 183cm, UK type
1702002600	Power cable 3-pin 183cm, USA type
1702002605	Power cable 3-pin 183cm, Europe type
1700023768-01	Phoenix to DC-in cable
96PSA-A120W12P4	Phoenix adaptor 100-240, 120W, 12V

Optional Chassis

Part Number	Description
AIMB-B2000-00YE	Mini-ITX chassis with optional DC Adaptor

Optional Riser Card

Part Number	Description
AIMB-R1201-02A1E	Riser for AIMB-226, 2 PCIe1 x1 A1-01

Embedded OS/API

OS/API	Part number	Description
WES7P	2070013904	WES7P x64 Embedded
WES7E	2070013905	WES7E x64 Embedded
WE8S	2070013903	WE8S x64 Embedded
Software API	NA	SUSI V4.0 SW API for AIMB-226 Win7

Block Diagram

AIMB-R1201-02A1E: Expansion Slot (golden-finger PCIe x1)

