

AIMB-205

Intel® Core™ i7/i5/i3 LGA 1151 Mini-ITX
with VGA/DP/DVI-D/LVDS(eDP), 8 COM,
Dual LAN, PCIe x16, M.2, DDR4



WISE-PaaS/RMM RoHS COMPLIANT CE FC

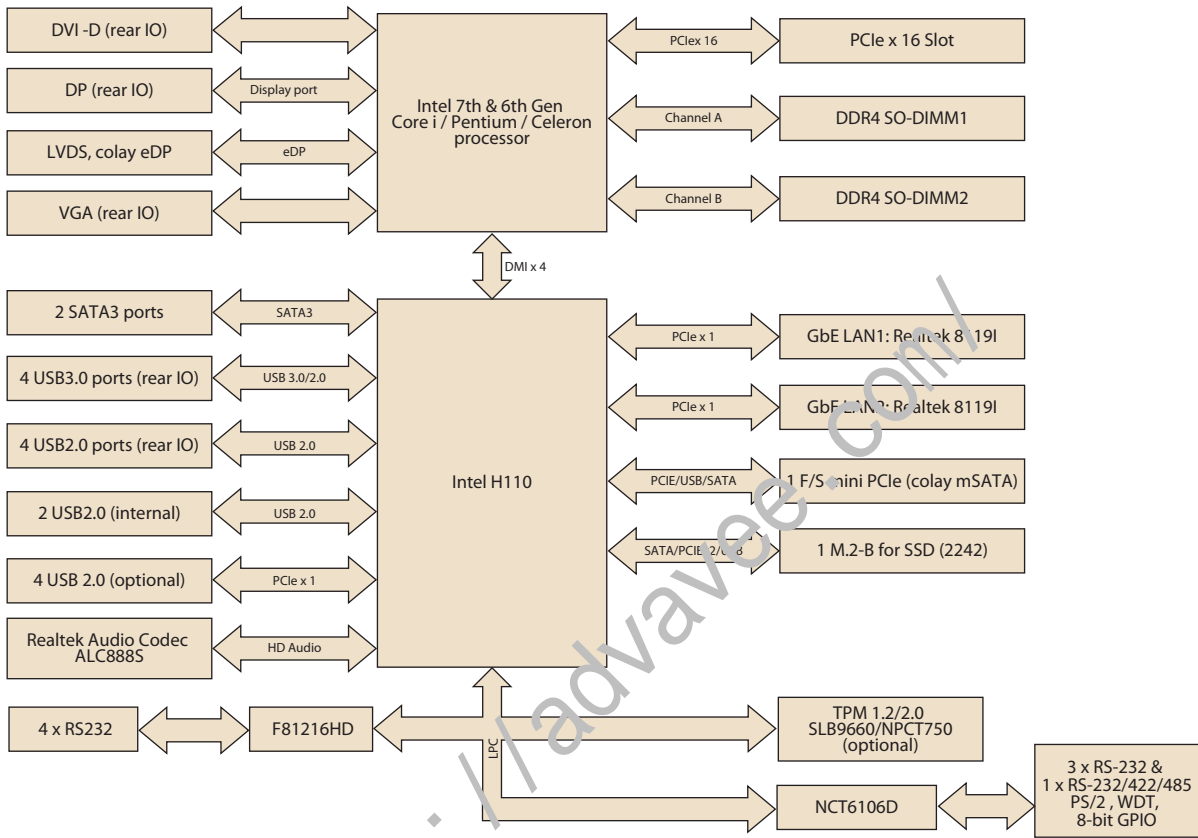
Features

- Supports Intel® 7th Gen Core™ & 6th Gen Core™ i processor /Pentium / Celeron (LGA1151) with Intel H110 chipset
- Two 260-pin SO-DIMM up to 32GB DDR4 2400/2133 MHz SDRAM
- Supports Dual display configuration by multiple interface: DP/DVI-D/VGA/LVDS(eDP)
- Supports DirectX 12, OpenGL 4.4, OpenCL 2.0 and outstanding 3D graphics performance
- Supports 1 F/S MiniPCIe and 1 M.2 2242 (B key for SSD)

Specifications

Processor System	CPU	i7-7700/ 7700T	i7-6700/ i7-6700TE	i5-7500/ i5-7500T	i5-6500/ i5-6500TE	i3-7101/ i3-7101TE	i3-6100/ i3-6100TE	Pentium G4400	Pentium G4400TE	Celeron G3900	Celeron G3900TE	
	Core Number	4/4	4/4	4/4	4/4	2/2	2/2	2	2	2	2	
	Max Speed	3.6GHz/ 2.9GHz	3.4GHz/ 2.4GHz	3.4GHz/ 2.7GHz	3.2GHz/ 2.3GHz	3.9GHz/ 3.4GHz	3.7GHz/ 2.7GHz	3.3G	2.4G	2.8G	2.6G	
	L3 Cache	8M/8M	8M/8M	6M/6M	6M/6M	3M/3M	3M/4M	3M	3M	2M	2M	
	TDP	65W/35W	65W/35W	65W/35W	65W/35W	54W/35W	51W/35W	54W	35W	51W	35W	
	Chipset	H110										
	BIOS	AMI EFI 128 Mbit SPI										
Memory	Technology	Dual channel DDR4 2400/2133 MHz or ECC SDRAM (Only supports DDR4 2133 MHz SDRAM for SKL-S CPU)										
	Max. Capacity	Up to 32GB (16GB per SO-DIMM)										
	Socket	2 x 260-pin SO-DIMM										
Graphics	Controller	Integrated Intel® H70 Graphics 530										
	VRAM	Shared system memory, 2 GB and above, total system memory shared 1 GB maximum video memory										
	VGA	Max. resolution 1920 x 1200 @ 60 Hz										
	DVI-D	Supports max. resolution 1920 x 1200 @ 60Hz										
	Display Port	Max. resolution 4096 x 2304 @ 60Hz										
	Dual Display	LVDS: Supports dual channel 24-bit up to 1920 x 1200 / eDP:with internal pin header, supports max. resolution 4096 x 2304 @ 60 Hz										
Ethernet	Interface	10/100/1000 Mbps										
	LAN 1 Controller	Realtek RTL8119I GbE LAN										
	LAN 2 Controller	Realtek RTL8119I GbE LAN										
	Connector	2 x RJ-45										
	M.2	1 M.2 2242 (B key for SSD)										
Expansion Slot	Mini PCIe	1 F/S miniPCIe slot support mSATA										
	PCIe x16 (Gen2/3)	1 (16GB/s per direction)										
	SATA 3.0	2 (600MB/s per port)										
Rear I/O Connector	DVI-D	1										
	VGA	1										
	DisplayPort	1										
	RJ-45	2										
	USB 3.0	4										
	USB 2.0	4										
	Audio	3 (line-in, line-out, mic-in)										
	USB 2.0	6 (USB11-14 is BOM optional)										
Internal Connector	Serial	7 x RS232, 1 x RS232/422/485 COM1: supports 5V/12V by jumper selection, COM2: supports RS-232/422/485 by BIOS selection										
	SATA 3.0	2										
	TPM	(optional SLB9660 TPM 1.2/ SLB9665 TPM 2.0)										
	GPIO	1 (8-bit)										
	Watchdog Timer	Output	System reset									
	Interval	Programmable 1-255 sec/min										
Power Requirements	Input Power	ATX Win Idle 10.43W (Intel core i7-7700 3.6GHz / DDR4 2133MHz 16GB x 2)										
	Operation Temperature	0 ~ 60° C (32 ~ 140° F)										
Environment	Non-Operation Temperature	-40 ~ 85° C (-40 ~ 185° F)										
	Dimensions	170 x 170 mm (6.7" x 6.7")										

Block Diagram



Ordering Information

P/N	Chipset	DP	DVI-D	VGA	LVDS/eDP	GbE LAN	COM	SATA	USB 3.0/2.0	M.2	Mini PCIe	TPM	AMP	PCIe x 16
AIMB-205G2-00A2E	H110	1	1	1	1/(1)	2	8	2	4/10 (USB 11~14 is BOM optional)	1 (1 M.2-B 2242)	1 F/S, colay mSATA	(1)	1	1

(*) BOM options available on MP version.

Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	1
1700008876	1-to-4 serial ports, 35 cm	2
1960082356T000	I/O port bracket	1
2006B20500	Startup manual	1

Optional Accessories

Part Number	Description
1700026162-01	USB 2.0 cable with two ports, 30 cm with bracket
1960053207N001	LGA1150 CPU cooler for CPU TDP 65W, 92.9 (W) x 92.9 (L) x 46 (H) mm
1960060732N001	LGA1150 CPU cooler for CPU TDP 45W, 80 (W) x 80 (L) x 32.2 (H) mm
1703060191	KB/MS cable 1*6P-2.0/M-DIN 6P(F)*2, 19cm

Optional Chassis

Part Number	Description
AIMB-B2000-15ZE	Mini-ITX chassis (w/ 150W PSU)

Rear I/O



Embedded OS/API

OS/API	Part No.	Description
Win10 IoT Ent	2070015197	img W10 16HL AIMB-205 64b 1701 ENU
Win10 IoT Ent	2070015198	img W10 16VL AIMB-205 64b 1701 ENU
WE8.1	2070015281	img W81 IP AIMB-205 64b 1609 ENU
WES7E	2070015407	img WES7E AIMB-205 64b 1709 ASIA 4 MUI
WES7P	20706WE7PS0003	img WES7P AIMB-205 64b 1709 10 MUI

**KBL-S CPU only support windows 10