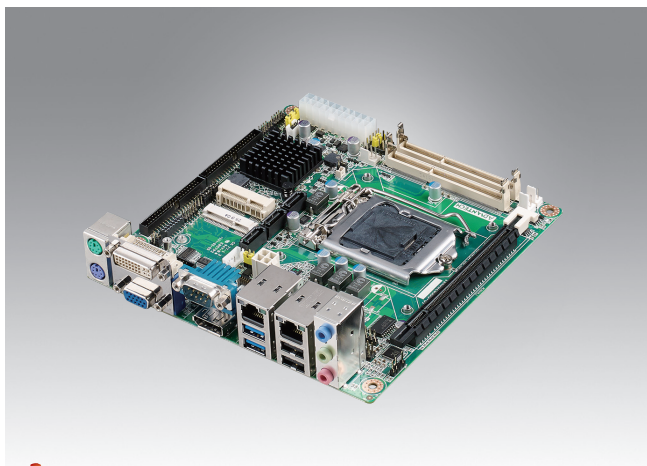


AIMB-203

Intel® Core™ i7/i5/i3 LGA 1150 Mini-ITX
with CRT/DP++/DVI/LVDS, 9 COM, Dual
LAN, PCIe x16



WISE-PaaS/RMM

Specifications

Processor System	CPU	i7-4790S	i7-4770S	i7-4770TE	i5-4590S/ 4590T	i5-4570S	i5-4570TE	i3-4360/ 4350T/4340TE	i3-4330	i3-4330TE	Pentium G3420	Pentium G3320TE
	Core Number	4	4	4	4/4	4	2	2/2/2	2	2	2	2
	Max Speed	3.2GHz	3.1 GHz	2.3 GHz	3.0/2.0 GHz	2.9 GHz	2.7 GHz	3.7/3.1/2.6 GHz	3.5 GHz	2.4 GHz	3.2 GHz	2.3 GHz
	L3 Cache	8M	8M	8M	6M/6M	6M	4M	4M/4M/4M	4M	4M	3M	3M
	TDP (W)	65W	65W	45W	65W/35W	65W	35W	54W/35W/35W	54W	35W	54W	35W
	Chipset	H81										
Expansion Slot	BIOS	AMI EFI 64 Mbit SPI										
	PCI	-										
	Mini-PCIe	2, F/S x 1 support mSATA, H/S x 1 with SIM card holder										
Memory	PCIe x16 (Gen2)	8 GB/s per direction, 1 slot										
	Technology	Dual Channel DDR3/DDR3L @1.5V 1333/1600 MHz SDRAM										
	Max. Capacity	16 GB (up to 8 GB per SO-DIMM)										
Graphics	Socket	2 x 204-pin DDR3 SO-DIMM (Non-ECC)										
	Controller	Supports DirectX11.1, OpenGL 4.0 and OpenCL 1.2										
	CRT	Yes, supports max. resolution 1920 x 1200 @ 60Hz										
	LVDS	Supports dual channel 48 bit up to 1920 x 1200										
	Display Part 1.2	Supports max resolution 3840 x 2160 @ 60Hz										
	DVI	Supports max. resolution 1920 x 1200 @ 60Hz										
Ethernet	Dual Display	CRT/LVDS, CRT/DP, CRT/DVI, LVDS/DP, LVDS/DVI, DP/DVI										
	Interface	10/100/1000 Mbps										
	Controller	GbE LAN1: Realtek 8111E; GbE LAN2: Realtek 8111E										
SATA	Connector	RJ-45 x 2										
	Max Data Transfer Rate	600 MB/s (SATA 3.0) / 300MB/s (SATA 2.0)										
Rear I/O	Channel	2 / 1										
	CRT	1										
	DVI-D	1										
	Display Port 1.2	1										
	Ethernet	2										
	USB	4 (2 USB 3.0 & 2 USB 2.0)										
	Audio	3 (Mic-in, Line-out, Line-in)										
	Serial	1(RS-232; COM 1 supports 5V/12V)										
	PS/2	2 (1 x keyboard and 1 x mouse)										
Internal Connector	USB	4 (USB 2.0 compliant)										
	LVDS/inverter	1/1										
	Serial	8 (7 x RS-232, 1 x RS-232/422/485; COM 5 supports RS-232/422/485 auto flow control; COM 2 supports 5V/12V by jumper selection)										
	IDE	-										
	SATA	2 (SATA 3.0); 1 (SATA2.0)										
	Mini-PCIe	2 (1 x F/S; 1 x H/S)										
	Parallel	1										
	IrDA	-										
Watchdog Timer	GPIO	8-bit										
	Output	System reset										
Power Requirements	Interval	Programmable 1 ~ 255 sec/min										
	Typical Power Consumption	Win Idle 16.266 W (Intel Core i7-4770S 3.1GHz / DDR3 1600MHz 8GB x 2)										
Environment	Operating	Non-Operating										
	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution										
Physical Characteristics	Dimensions	-40 ~ 85° C (-40 ~ 185° F)										
	Dimensions	170 x 170 mm (6.69" x 6.69")										

Features

- Supports Intel® 4th Gen Core™ i processor (LGA1150) with Intel H81 chipset
- Two 204-pin SO-DIMM up to 16 GB DDR3 1600 MHz SDRAM
- Supports dual display of CRT/DVI/DP++/LVDS
- Supports PCIe x16 (Gen 2) and two mini PCIe
- Supports WISE-PaaS/RMM and Embedded Software APIs

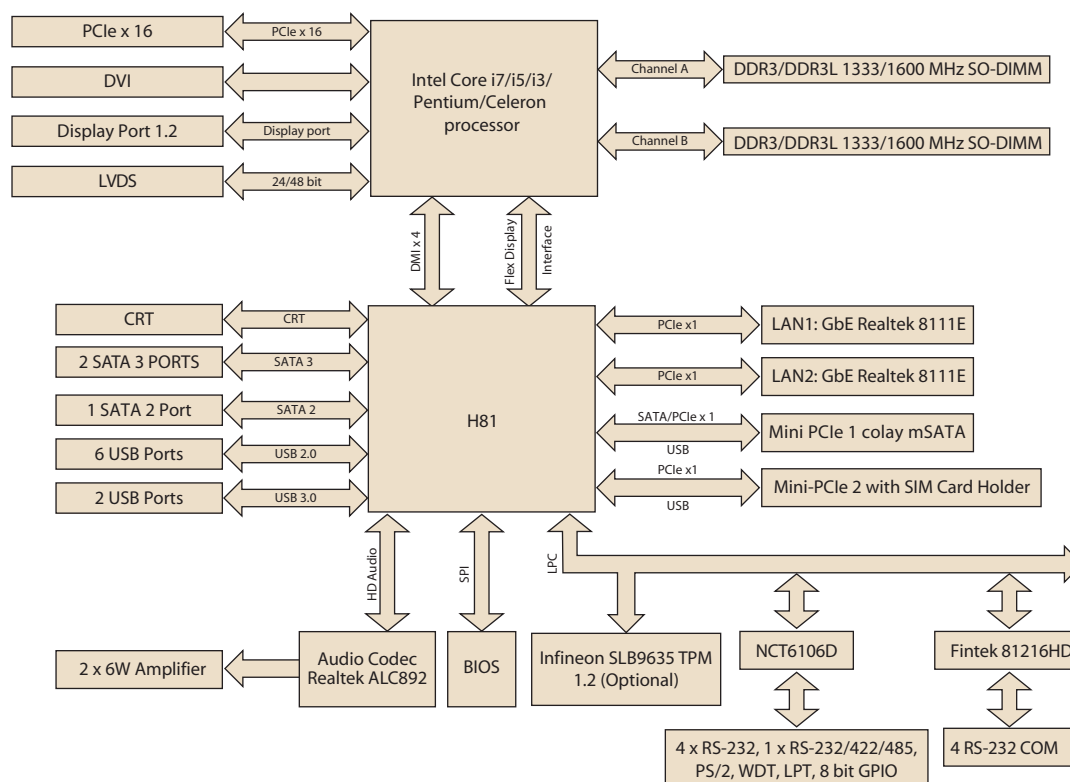
Software APIs:



Utilities:



Block Diagram



Ordering Information

Part Number	Chipset	DP++	CRT	DVI-D	LVDS	GbE LAN	COM	SATA III/II	USB 3.0/2.0	MiniPCIe	LPT	TPM	AMP	PClex16
AIMB-203G2-00A1E	H81	1	1	1	1	2	9	2/1	2/6	2 (1 x F/S; 1 x H/S)	1	(1)	2 x 6W	1
AIMB-203L-00A1E	H81	0	1	1	0	1	9	2/1	2/6	1 (F/S)	0	0	2 x 6W	1

*() BOM options available on MP version.

Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	2
1700008876	1-to-4 serial ports, 35 cm	2
2006020310	Startup manual	1
2066020300	Driver CD	1
19Z0000567T000	I/O port bracket	1

Optional Accessories

Part Number	Description
1703100121	USB cable with two ports, 12 cm
1703100261	USB cable with two ports, 26 cm
1703100350	USB cable with two ports, 34.5 cm
1700260250	Printer port cable, 25 cm
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

Note: Purchasing AIMB-203's proprietary CPU cooler from Advantech is a must, other brand's CPU cooler are NOT compatible with AIMB-203.

Optional Chassis

Part Number	Description
AIMB-B2000-15ZE	Mini-ITX chassis with 150W ATX power supply

Embedded OS/API

OS/API	Part No.	Description
WES7	2070013807	img WES7E AIMB-203 x64 V5.6.8 En/Jp/Tc/Sc
WES7P	2070014425	Img WES7P AIMB-203 V5.3.0 x32 10MUI
WES8	2070013814	img WES8 AIMB-203 x64 V6.5.2 10MUI
Software API		SUSI V3.0 SW API for AIMB-203

I/O View



AIMB-203G2-00A1E

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