

AIMB-582

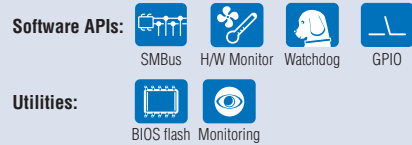
Intel® Xeon® E3/ Core™ i7/i5/i3 LGA1155
MicroATX with CRT/DVI/eDP/LVDS/DP,
6 COM, Dual LAN, SATAIII

NEW



Features

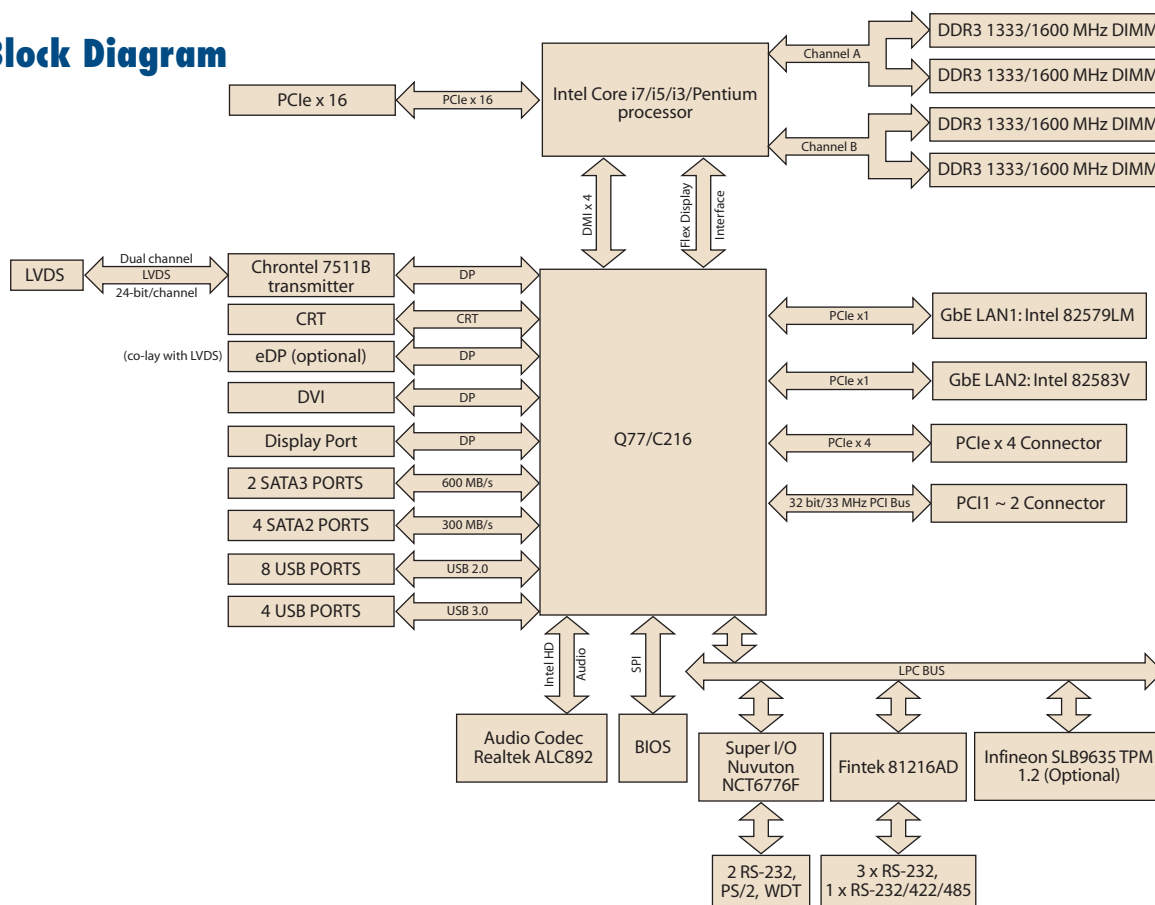
- Supports Intel® Xeon®/ Core™ i7/i5/i3 processor with Q77/C216 chipset
- Four DIMM sockets support up to 32 GB DDR3 1333/1600 MHz SDRAM
- Supports CRT, DVI, LVDS, DP, eDP (optional) and dual GbE LAN
- Supports Intel AMT 8.0 and Intel vPro competent
- Supports PCIe Gen3, USB 3.0, Software RAID 0,1,5,10, TPM 1.2 (Optional)
- Supports SUSIAccess and Embedded Software APIs



Specifications

	CPU	Intel Xeon E3-1275v2	Intel Xeon E3-1275	Intel Xeon E3-1225v2	Intel Xeon E3-1225	Intel Core i3-2120	Intel Pentium G850	Intel Core i7-3770	Intel Core i7-2600	Intel Core i5-3550S	Intel Core i3-3220	Intel Core i5-2400	Intel Celeron G540	
Processor System	Core Number	4	4	4	4	2	2	4	4	4	2	4	2	
	Max. Speed	3.5 GHz	3.4 GHz	3.2 GHz	3.1 GHz	3.3 GHz	2.9 GHz	3.4GHz	3.4 GHz	3.0GHz	3.3 GHz	3.1 GHz	2.5 GHz	
	Integrated Graphics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	L3 Cache	8 MB	8 MB	8 MB	6 MB	3 MB	3 MB	8 MB	8 MB	6 MB	3 MB	6 MB	2 MB	
	Supports Model	WG2	WG2	WG2	WG2	WG2/QG2	WG2/QG2	QG2	QG2	QG2	QG2	QG2	QG2	
	Chipset	Q77/C216												
	BIOS	AMI EFI 64 Mbit SPI												
Expansion Slot	PCI	32-bit/33 MHz, 2 slots												
	PCIe x4 (Gen2)	2.0 GB/s per direction, 1 slot												
	PCIe x16 (Gen3)	16 GB/s per direction, 1 slot												
Memory	Technology	Dual Channel DDR3 1333/1600 MHz SDRAM												
	Max. Capacity	32 GB/8 GB per DIMM												
	Socket	4 x 240-pin DIMM												
Graphics	Controller	Intel HD Graphics												
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed												
	LVDS	Supports dual channel 48 bit and up to 1920 x 1200												
	CRT	Yes, supports max resolution 2048 x 1536 at 60 Hz												
	DVI	Yes, supports max. resolution 1920 x 1200 at 60 Hz												
	eDP	Yes, with internal pin header, supports max. resolution 1920 x 1200 at 60 Hz												
	Display Port	Yes, supports max resolution 2560 x 1600 at 60 Hz												
Ethernet	Triple Display	CRT+eDP (or LVDS)+DP, CRT+eDP (or LVDS)+ DVI												
	Dual Display	CRT+eDP (or LVDS), CRT+DVI, eDP (or LVDS)+ DVI												
	Interface	10/100/1000 Mbps												
SATA	Controller	GbE LAN1: Intel 82579LM, GbE LAN2: Intel 82583V												
	Connector	RJ-45 x 2												
Rear I/O	Max Data Transfer Rate	600 MB/s (SATA 3.0)/ 300 MB/s (SATA 2.0)												
	Channel	2/4												
	CRT	1												
	DVI	1												
	Display Port	1												
	Ethernet	2												
	USB	4 (4 USB 3.0)												
Audio	2 (Mic-in, Line-out)													
Serial	1 (RS-232)													
PS/2	2 (1 x keyboard and 1 x mouse)													
Internal Connector	USB	8 (USB 2.0)												
	Serial	5 (4 x RS-232, 1 x RS-232/422/485 to support auto flow control)												
	IDE	-												
	SATA	2 x 600 MB/s (SATA 3.0)/4 x 300 MB/s (SATA 2.0)												
	LVDS & Inverter	1 (default)												
	Extended Display Port (eDP)	1 (optional by removing LVDS)												
	Parallel	1												
	JTAG	1												
	IrDA	-												
Watchdog Timer	GPIO	8-bit GPIO												
	Output Interval	System reset Programmable 1 ~ 255 sec/min												
Power Requirements	Power On	Intel Core i7-3770 3.4 GHz, 8 GB DDR3 1600 MHz x 4pcs												
		+5 V	3.3 V	12 V	5 Vsb	-12 V								
Environment		2.69 A	0.93 A	5.3 A	0.0 A	0.52 A								
	Operating Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution												
Physical Characteristics	Dimensions	244 mm x 244 mm (9.6" x 9.6")												

Block Diagram



Ordering Information

Part Number	Chipset	Memory	USB 3.0	CRT	DP	DVI	LVDS/eDP	USB	COM	TPM	GbE LAN
AIMB-582QG2-00A1E	Q77	Non-ECC	4	Yes	1	1	1/(1)	8	6	(1)	2
AIMB-582WG2-00A1E	C216	ECC/Non-ECC	4	Yes	1	1	1/(1)	8	6	(1)	2
AIMB-582QG2-TPA1E	Q77	Non-ECC	4	Yes	1	1	1/(1)	8	6	1	2

*() BOM options available on MP version.

Riser Card

Part Number	Description
AIMB-RP10P-01A1E	1U riser card with 1 PCI expansion
AIMB-RP30P-03A1E	2U riser card with 3 PCI expansion
AIMB-RP3PF-21A1E	2U riser card for 1 PCIe x 16 abd 2 PCI expansion
AIMB-RF10F-01A1E	1U riser card with 1 PCI e x 16 expansion
AIMB-RP3P8-12A1E	2U riser card with 2 PCIe x 8 & 1 PCI slots expansion (For WG2 Sku)

Note: AIMB-RP3P8-12A1E is not compatible with ACP-2010MB/2320MB chassis unless change special bracket to 1950014302N001.

Packing List

Part Number	Description	Quantity
1700003194	SATA HDD cable	2
1703150102	SATA power cable	2
1960056089T000	I/O port braket	1
2002058100	Startup manual	1
2062058100	Driver CD	1

I/O View



AIMB-582QG2-00A1E
AIMB-582WG2-00A1E
AIMB-582QG2-TPA1E

Optional Accessories

Part Number	Description
1700002204	Dual port USB cable (27 cm) with bracket
1960047669N001	LGA1156 CPU cooler for 4U and wallmount chassis, for CPU TDP ≤ 95W, 4.72" (W) x 4.72" (L)X 3.03" (H)
1960047831N001	LGA1156 CPU cooler for 2U and backplane version of chassis, for CPU TDP ≤ 65W, 3.27" (W) x 3.27" (L)X 2.17" (H)
1960049408N001	LGA1156 CPU cooler for 1U and wallmount chassis, for CPU TDP ≤ 65W, 3.35" (W) x 3.35" (L)X 1.02" (H)
1700000446	Printer port cable kit
1700018699	KBMS cable 1*6P-2.5/DIN-6P(F)*2, 25 cm
1700000447	1-to-4 serial ports cable kit, 45cm
1701400181	1-to-4 serial ports cable kit, 18cm
1950014302N001	Special bracket for riser card AIMB-RP3P8-12A1E

Note: Purchasing AIMB-582's proprietary CPU cooler from Advantech is a must, other brand's CPU cooler are NOT compatible with AIMB-582. The complete thermal solution is composed of CPU cooler and system fans to support the CPU TDP as above.

Embedded OS/API

OS/API	Part No.	Description
Win XPE	2070011427	Image XPE WES2009 AIMB-582QG2-00A1E V4.1 ENG
WES 7	2070011428	Image WES7E AIMB-582QG2 V5.1.2 4Muti
WES 7	2070011429	Image WES7E AIMB-582QG2 64bit V5.6.4 Eng/Chs/Jpn

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