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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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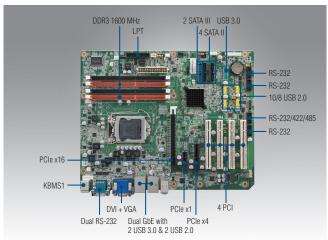






# **AIMB-782**

#### **LGA1155 3rd generation Intel® Core™ i7/i5/i3/** Pentium ATX with DVI/VGA, DDR3, SATA III



#### **Features**

- 3rd generation Intel® Core™ processor-based platform
- Supports Intel® Core™ i7/i5/i3/Pentium processor with Q77 chipset
- Four DIMM sockets support up to 32 GB DDR3 1066/1333/1600
- Supports dual display VGA/DVI-D and dual GbE LAN
- Supports SATA RAID 0, 1, 5, 10, AMT8.0, USB 3.0
- Supports Advantech LPC modules of TPM

Software APIs:









Utilities:

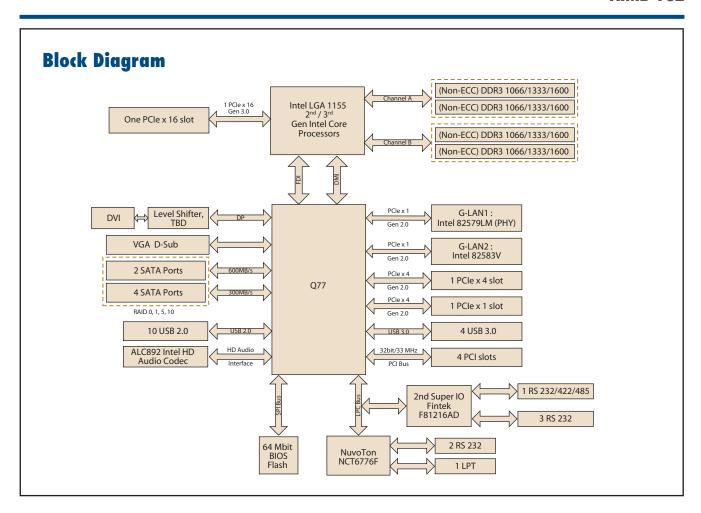




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## **Specifications**

Processor System	CPU	Core i7 3770	Core i7 2600	Core i5 3550S	Core i5 2400	Core i3 3220	Core i3 2120	Pentium G2120	Pentium G850	Celeron G540
	Speed	3.4 GHz	3.4 GHz	3.0 GHz	3.1 GHz	3.3 GHz	3.3 GHz	3.1 GHz	2.9 GHz	2.5 GHz
	L3 Cache	8 MB	8 MB	6 MB	6 MB	3 MB	3 MB	3.1 d 1 2	3 MB	2.5 GHZ
	Socket	LGA1155	O IVID	UIVID	O IVID	O IVID	O IVID	O IVID	O IVID	Z IVID
	Chipset	077								
	BIOS	AMI 64 Mb	it SPI							
	PCI		MHz, 4 slots							
Expansion Slot	PCle x 1 (Gen2)		per direction,	1 slot						
	PCle x 4 (Gen2)		er direction, 1							
	PCle x16 (Gen3)		r direction, 1							
Memory	Technology			6/1333/1600 (	1600 only sur	ported by Cor	e i7/i5/i3 3xxx	series proces	sors)	
	Max. Capacity	32 GB		.,, (	, , , , ,	, ,	, , , , ,		,	
	Socket	4 x 240-pii	n DIMM							
0 11	Controller	Intel HD G	aphics 2000/	2500/3000/400	0 (Depends o	n processor)				
Graphics	VRAM			nemory with 2			ry installed			
	Interface	10/100/10		•						
Ethernet	Controller	GbE LAN1:	Intel 82579L	M, GbE LAN2:	Intel 82583V					
	Connector	RJ-45 x 2								
	Max Data Transfer Rate	600 MB/s								
CATA	Channel	2								
SATA	Max Data Transfer Rate	300 MB/s								
	Channel	4								
	VGA	1								
	DVI	1								
	Ethernet	2								
Rear I/O	USB	4 (Two USI	3 3.0)							
	Audio	2 (Mic-in,	Line-out)							
	Serial	2 (RS-232)								
	PS/2		oard and 1 x	nouse)						
	USB	10 (Two US	SB 3.0)							
	Serial			32/422/485 wit	h auto-flow co	ontrol)				
Internal Connectors	SATA	6 (SATA II :	x4 and SATA I	II x2)						
internal Connectors	Parallel	1								
	IrDA	1								
	GPI0	8-bit								
Watchdog Timer  Power Requirement	Output	System res								
	Interval		<u>able 1 ~ 255 s</u>							
	Power On		5 3550 3.0 G	Hz; DDR3 8G x	4					
		3.3 V		5 V		12 V		5 Vsb		
		0.77 A		2.23 A		3.56 A		0.46 A		
		Operating					Non-Opera	iting		
Environment	Temperature		$0 \sim 60^{\circ}$ C (32 $\sim 140^{\circ}$ F), depends on CPU speed and cooler $-40 \sim 85^{\circ}$ C (-40 $\sim 185^{\circ}$ F)							
DI : 101 1 ::	·	solution	4 (40)	011)				- ,	,	
Physical Characteristics	Dimensions	304.8 x 24	4 mm (12" x 9	J.b")						



## **Ordering Information**

Part Number	Chipset	Memory	Display	USB 3.0	USB 2.0	COM	GbE LAN	AMT	SATA III	SW RAID
AIMB-782QG2-00A1E	Q77	Non-ECC DDR3	VGA + DVI	4	10	6	2	Yes	2	Yes

#### **Riser Card**

Part Number	Description
AIMB-R430P-03A2E	2U riser card with 3 PCI expansion
AIMB-R43PF-21A1E	2U riser card with 1 PCle x16 & 2 PCl expansion

#### **Packing List**

Part Number	Description	Quantity
1700003194	SATA HDD cable	x 2
1700022749-11	SATA power cable	x 1
1960050472T000	I/O port bracket	x 1
2002078210	Startup manual	x 1
2062078200	Driver CD	x 1

#### **Bracket View**



AIMB-782QG2-00A1E

## **Optional Accessories**

Part Number	Description
1700002204	Dual port USB 2.0 cable (27 cm) with bracket
1700020277-01	Dual port USB 3.0 Cable with bracket
1960047669N001	LGA1155/1156 CPU cooler for 4U and wallmount chassis
1960047831N001	LGA1155/1156 CPU cooler for 2U and wallmount chassis
1960049408N001	LGA1155/1156 CPU cooler for 1U and wallmount chassis
1700008809	Printer port cable kit (25 cm)
1700020294-01	Printer port cable kit (42 cm)
1701092300	COM port cable kit
1960055954T000	I/O port bracket for 1U chassis

Note 1: Purchasing AIMB-782's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with AIMB-782.

Note 2: 1960049408N001 is design to be used with Advantech 1U chassis and supports up to 73W processor, user needs to conduct thermal test before using this cooler with other brand chassis.