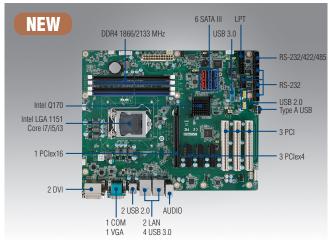
## **AIMB-785**

# LGA1151 6th Generation Intel® Core™ i7/i5/i3/Celeron/Pentium ATX with Triple Display, DDR4, SATA III



#### **Features**

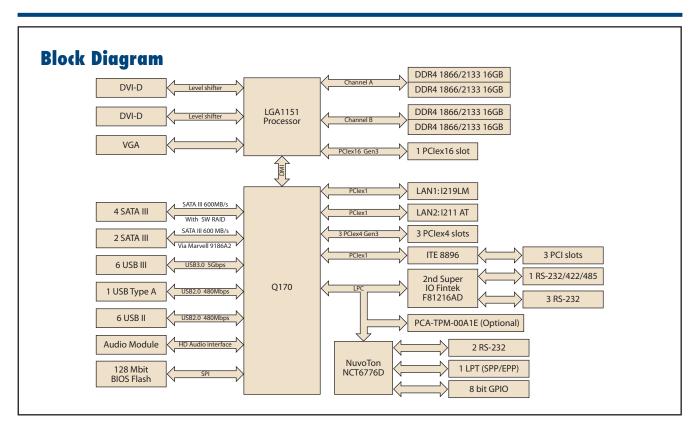
- Supports Intel® Core™ i7/i5/i3/Celeron/Pentium processor with Q170 chipset
- Four DIMM sockets support up to 64 GB DDR4 1866/2133
- Supports triple display VGA/2 DVI-D and dual GbE LAN
- Supports SATA RAID 0, 1, 5, 10, USB 3.0
- Supports Intel vPro, AMT 11.0 & TPM technologies
- Note: PCA-TPM-00A1E module is required to enable Intel vPro and TPM technologies

#### Quiet

#### C € FCC

#### **Specifications**

	CPU	i7-6700	i7-6700TE	i5-6500	i5-6500TE	i3-6100	i3-6100TE	G4400	G4400TE	G3900	G3900TE	
	Speed	3.4GHz	2.4GHz	3.2GHz	2.3GHz	3.7GHz	2.7GHz	3.3GHz	2.9GHz	2.8GHz	2.6GHz	
	L3 Cache	8MB	8MB	6MB	6MB	4MB	4MB	3MB	3MB	2MB	2MB	
Processor System	Socket	LGA1151		OIVID	OWID	IIVID	IIIID	OND	OND	LIVID	LIVID	
	Chipset	Q170										
	BIOS	AMI 128 Mbit SPI										
	PCI	32-bit/33 MHz, 3 slots										
Expansion Slot	PCI											
EXPANSION SIOL	` ,		,									
	PCle x16 (Gen3)	16 GB/s per direction, 1 slot  Dual Channel DDR4 1866/2133										
Manager 11.	Technology		TITIEL DUK4 18	000/2133								
Memory	Max. Capacity	64 GB										
	Socket	4 x 288-p										
Graphics	Controller	Intel HD (										
	VRAM			memory w	ith 2 GB and a	bove syster	n memory ins	talled				
	Interface		000 Mbps									
Ethernet	Controller			M, GbE LAN	N2: Intel I211A	T						
	Connector	RJ-45 x 2	)									
	Max Data Transfer Rate	600 MB/s										
SATA	Channel	6 (4 from	Intel® Q170 a	and 2 from I	Marvell 9186A	(2)						
	RAID	0,1,5,10	(4 SATAIII po	rts from Inte	el®)							
	VGA		1920x1200@6									
	DVI-D	2 (Up to 1	1920x1200@6	60Hz)								
	Ethernet	2										
Rear I/O	USB	6 (USB3.)	0 x 4, USB2.0	x 2)								
riour i, o	Audio		, Line-out)									
	Serial	1 (RS-232)										
	PS/2	N/A	-,									
	USB		Ω with wafer I	nnx x 2 IIS	B 2.0 with waf	er hox x 4	IISB 2 0 with	tyne A conr	nector x 1)			
	Serial		-232, 1 x RS-			or box x i,	OOD E.O WILL	typo / t doili	lootor x 1)			
Internal Connectors	SATA	6	202, 1 7 110	202/722/70	10)							
	Parallel	1 (SPP/E	DD)									
	Display Port	N/A	11)									
	IrDA	N/A										
	GPIO	8-bit										
	PS/2 KB/Mouse			lauga Cabla	io roquirod)							
			al PS/2 KB/M	louse Gable	is required)							
Watchdog Timer  Power Requirement	Output	System re										
	Interval		mable 1 ~ 255		20.00.4							
	Power On		700 @ 3.4GH			401/	F\ /					
	Voltage	+12V	+5V	+3.3V	+5Vsb	-12V	-5V					
	Current	6.78A	1.38A	1.35A	0.12A	0.05A	0.05A					
		Operating					Non-Operat	ting				
Environment	Temperature		*	), depends	on CPU speed	d and	-40 ~ 85° C	C (-40 ~ 185	5° F)			
		cooler so						. ,	,			
Physical Characteristics	Dimensions	304.8 x 2	44 mm (12" x	(9.6")								



## **Ordering Information**

Part Number	Chipset	Memory	Display	USB 3.0	USB 2.0	COM	GbE LAN	AMT	SATA III	SW RAID	
AIMB-785G2-00A1E	Q170	Non-ECC DDR4 1866/2133 up to 64GB	VGA + dual DVI	6	7	6	2	Yes	6	Yes	

Note: SATAO and SATA1(red SATA ports) don't support RAID function.

## **Packing List**

Part Number	Description	Quantity
1700003194	SATA HDD cable	x 2
1700022749-11	SATA power cable	x 1
19Z0000884T000	I/O port bracket	x 1
2006078510	Startup manual	x 1
2066078501	Driver CD	x 1
2190000902	Warranty Card	x 1

#### I/O View



AIMB-785G2-00A1E

## **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
1960052651N021	CPU Cooler for 2U, 4U and wallmount chassis
1960049408N001	CPU cooler for 1U Rackmount chassis
1960069666N001	IO bracket for 1U chassis
1700020294-01	Printer port cable kit (42 cm)
1701092300	COM port cable kit
1700019268-11	PS/2 KB/Mouse Cable
1960063434N000	IO Bracket for PS/2 KB/Mouse Cable
PCA-TPM-00A1E	TPM module to enable TPM and vPro technologies

Note: Purchasing AIMB-785's proprietary CPU cooler from Advantech is a must. Other brands' CPU coolers are NOT compatible with AIMB-785.

#### **Riser Card**

Part Number	Description
AIMB-RF10F-01A1E	1U riser card with 1 PClex16 expansion
AIMB-R4104-01A1E	1U riser card with 1 PClex4 expansion
AIMB-R430P-03A2E	2U riser card with 3 PCI expansion
AIMB-R431F-21A1E	2U riser card with 1 PClex16 & 1 PClex1 expansion
AIMB-R43PF-21A1E	2U riser card with 1 PClex16 & 2 PCl expansion