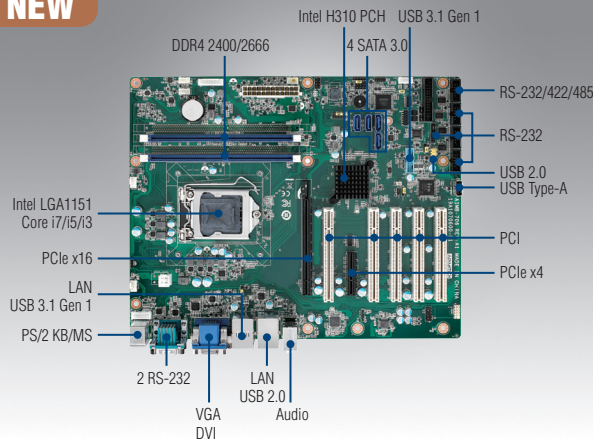


# AIMB-706

## LGA1151 8th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® ATX with DVI/VGA, DDR4, SATA 3.0, USB 3.1 & 6 COMs

**NEW**



### Features

- Intel® 8th generation Core™ i7/i5/i3/Pentium®/Celeron® processor with H310 chipset
- Dual channel (Non-ECC) DDR4 2400/2666 up to 32GB
- Support VGA and DVI display
- SATA 3.0, USB 3.1, dual GbEs
- 5 RS-232 and 1 RS-232/422/485 serial ports
- 1 PCIe x16 (Gen 3) and 1 PCIe x4 (Gen 2), and 5 PCI expansion slots

Note: Intel 8th generation processors only support Windows 10 (64-bit).

### Quiet Specifications

CE FCC

Processor System	CPU	i7-8700	i7-8700T	i5-8500	i5-8500T	i3-8100	i3-8100T	G5400	G5400T	G4900	G4900T	
	Speed	3.2 GHz	2.4 GHz	3.0 GHz	2.1 GHz	3.6 GHz	3.1 GHz	3.7 GHz	3.1 GHz	3.1 GHz	2.9 GHz	
	Cache	12 MB	12 MB	9 MB	9 MB	6 MB	6 MB	4MB	4 MB	2 MB	2 MB	
	Socket	LGA1151										
	Chipset	Intel H310										
	BIOS	AMI 128Mbit SPI Flash										
Expansion Slot	PCI	32-bit/33 MHz, 5 slots										
	PCIe x4 (Gen 2)	2 GB/s per direction, 1 slot										
	PCIe x16 (Gen 3)	16 GB/s per direction, 1 slot										
Memory	Technology	Dual Channel(Non-ECC) DDR4 2400/2666										
	Max Capacity	32 GB (16 GB per DIMM)										
	Sockets	2 x 288-pin DIMM										
Graphics	Controller	Chipset integrated Intel HD Graphics										
	VRAM	Shared system memory is subject to OS										
Ethernet	Interface	10/100/1000 Mbps										
	Controller	GbE LAN1: Intel I219-V, GbE LAN2: Intel I211-AT										
	Connector	2 x RJ-45										
SATA	Max Data Transfer Rate	600 MB/s										
	Channel	4										
Rear I/O	VGA	1 (Resolution up to 1920 x 1200 @ 60 Hz)										
	DVI	1 for G2 version (Resolution up to 1920 x 1200 @ 60 Hz)										
	Ethernet	2 for G2 version; 1 for VG version										
	USB	4 (2 x USB 3.1 Gen 1, 2 x USB 2.0)										
	Audio	2 (Line-out, Mic-in)										
	Serial	2 (RS-232)										
	PS/2	2 (1 x keyboard and 1 x mouse)										
Internal Connectors	USB	5 (2 x USB 3.1 Gen 1 via header, 2 x USB 2.0 via header, 1 x USB 2.0 Type-A connector)										
	Serial	4 for G2 version (3 x RS-232, box-header; 1 x RS-232/422/485 with auto-flow control, box-header)										
	SATA	4										
	Parallel	1										
	GPIO	8-bit										
Watchdog Timer	Output	System reset										
	Interval	Programmable 1 - 255 sec										
Power Requirement	Test Environment	Intel Core i7-8700 3.2GHz; DDR4 2400 16 GB x 2										
	Voltage	3.3V	5V	12V	5Vsb	-5V	-12V					
	Current	2.74A	3.5A	5.92A	0.05A	0.01A	0.08A					
Environment		Operating Non-Operating										
	Temperature	0 ~ 60 °C (32 ~ 140 °F), depends on CPU speed and cooler solution									-40 ~ 85 °C (-40 ~ 185 °F)	
	Humidity	40 °C @ 95% RH Non-condensing									60 °C @ 95% RH Non-condensing	
Physical Characteristics	Dimensions (L x H)	304.8 x 244 mm (12" x 9.6")										



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