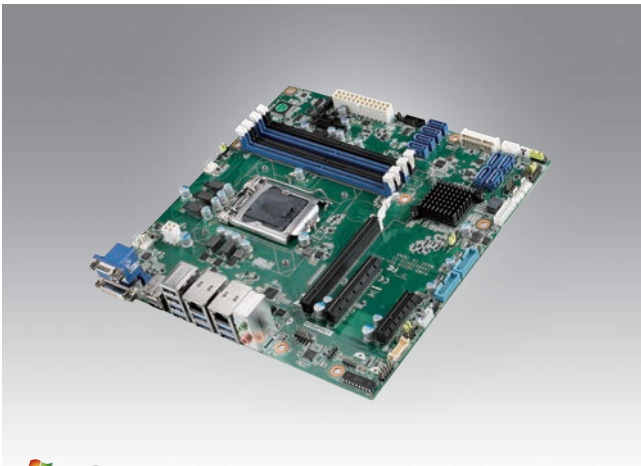


AIMB-585SV

Intel® Xeon® E3/ Core™ i7/i5/i3 LGA1151
MicroATX with DVI-D/HDMI/DP++/eDP/VGA,
2 COM, Dual LAN, 8 SATA III, 10 USB3.0



Quiet WISE-PaaS/RMM



CE FCC



Features

- Supports Intel® Xeon®/ 6th & 7th Gen Core™ i7/i5/i3 processor with C236 chipset
- Up to four DIMM sockets support up to 64 GB DDR4 2133 MHz SDRAM
- Supports DVI-D, HDMI, DP++, eDP, VGA display
- Supports Intel AMT 11.0 and Intel vPro competent
- Supports PCIe Gen3, upto 10 x USB 3.0, 8 x SATAIII and dual GbE LAN, mini-PCIe with mSATA
- Supports Software RAID 0, 1, 5, 10, TPM 1.2/2.0 (optional)
- Supports WISE-PaaS and Embedded Software APIs

Software APIs:



SMBus



H/W Monitor



Watchdog



GPIO

Utilities:



BIOS flash



Monitoring

Specifications

	CPU	E3-1275 v6	E3-1275 v5	E3-1225 v5	E3-1268L v5	i7-7700 / i7-7700T	i7-6700 / i7-6700TE	i5-7500 / i5-7500T	i5-6500 / i5-6500TE	i3-7101 / i3-7101TE	i3-6100 / i3-6100TE	Pentium G4400 / G4400TE	Celeron G3900 / G3900TE	
Processor System	Core Number	4	4	4	4	4/4	4 / 4	4/4	4 / 4	2/2	2/2	2/2	2/2	
	Max. Speed	3.8GHz	3.6GHz	3.3GHz	2.4GHz	3.6GHz / 2.9GHz	3.4GHz / 2.4GHz	3.4GHz / 2.7GHz	3.2GHz / 2.3GHz	3.9GHz / 3.4GHz	3.7 GHz / 2.7GHz	3.3GHz / 2.9GHz	2.8GHz / 2.6GHz	
	Integrated Graphics	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
	L3 Cache	8M	8M	6M	8M	8M/8M	8M / 8M	6M/6M	6M / 6M	3M/3M	4M / 4M	3M / 3M	2M / 2M	
	TDP (W)	80W	80W	80W	35W	65W/35W	65W / 35W	65W/35W	65W / 35W	54W/35W	51W / 35W	54W / 35W	47W / 35W	
	Chipset	C236												
	BIOS	AMI EFI 128 Mbit SPI												
Expansion Slot	PCIe x4 (Gen3)	4 GB/s per direction, 1 slot												
	PCIe x16 (Gen3)	16 GB/s per direction, 1 slot (BOM change to 2 PCIe x8)												
Memory	Technology	Dual Channel DDR4 2133 MHz SDRAM												
	Max. Capacity	64 GB/16 GB per DIMM												
	Socket	2 x 288-pin DIMM (can up to 4 DIMM)												
Graphics	Controller	Intel HD Graphics Supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1												
	VRAM	1 GB maximum shared memory with 2 GB and above system memory installed												
	HDMI	Supports max resolution HDMI 2.0, 4096 x 2160 @ 60 Hz												
	VGA	Max resolution 1920 x 1200 @ 60 Hz												
	DVI-D	Supports max. resolution 1920 x 1200 @ 60 Hz												
	eDP	Internal pin header, supports max. resolution 3840 x 2160 @ 60 Hz (on board, option)												
	Display Port	Supports max resolution 4096 x 2304 @ 60 Hz												
Triple Display	eDP/ VGA + DP++ + HDMI, eDP/ VGA + HDMI + DVI-D, DP++ + eDP/ VGA + DVI-D, DVI-D + DP++ + HDMI													
	Dual Display	DP++ + HDMI, DP++ + DVI-D, DP++ + eDP/ VGA, HDMI + DVI-D, HDMI + eDP/ VGA, eDP, VGA + DVI-D												
Ethernet	Interface	10/100/1000 Mbps												
	Controller	GbE LAN1: Intel i219LM, GbE LAN2: Intel i211												
	Connector	RJ-45 x 2												
SATA	Max Data Transfer Rate	600 MB/s (SATA 3.0)												
	Channel	8												
Rear I/O	DVI-D	1												
	Display Port	1												
	HDMI	1												
	VGA	1												
	Ethernet	2												
	USB	8 (6 x USB 3.0, 2 x USB 2.0)												
	Audio	2 (Mic-in/ Line-out) (Mic-in could be configured as "Line-in" under Win OS.)												
Internal Connector	USB 3.0	4												
	Serial	2 (2 x RS-232, 1 x RS-422/485 BOM change)												
	SATA	8 (SATA 3.0)												
	Extended Display Port (eDP)	0 (option)												
	JTAG	1												
	mini-PCIe	1 Full-size colay mSATA												
Watchdog Timer	GPIO	16-bit GPIO												
	Output	System reset												
Power Requirements	Interval	Programmable 1 ~ 255 sec/min												
	Power On	Intel Core i7-6700 3.4 GHz, 16 GB DDR4 2133 MHz x 4pcs												
Environment	+5 V	3.3 V		12 V		5 Vsb		-12 V						
	1.31A	0.35A		4.52A		0.06A		0A						
Physical Characteristics	Operating	Normal												
	Temperature	0 ~ 60° C (14 ~ 158° F), depends on CPU speed and cooler solution												
Power	Dimensions	244 mm x 244 mm (9.6" x 9.6")												
	Input Mode	ATX input (Default)												

