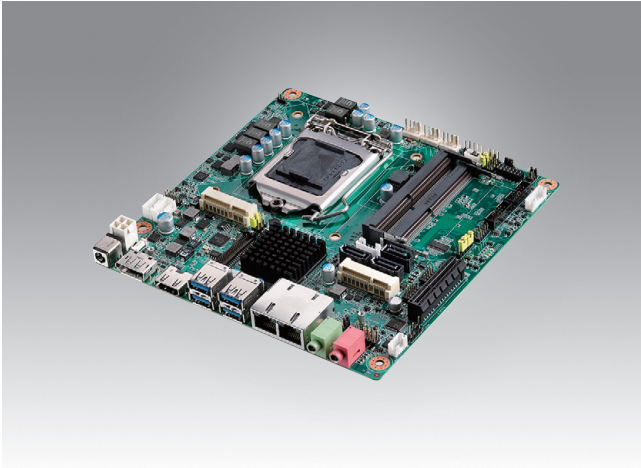


AIMB-285 A2

Intel® Core™ i7/i5/i3 LGA 1151 Mini-ITX with DP⁺⁺/HDMI/VGA, 2 COM, Dual LAN, PCIe x4, miniPCle, DDR4, DC Input



Features

- Supports Intel® 7th & 6th Gen Core™ i processor (LGA1151) with Intel H110 chipset
- Two 260-pin SO-DIMM up to 32GB DDR4 2400/2133 MHz SDRAM
- Supports Dual display of DP/HDMI/VGA
- Supports PCIe x4 (Gen 3), 1 F/S miniPCle and 1 H/S miniPCle
- Support 12V DC Input and low profile height
- Supports 4 USB 3.0, 4 USB 2.0, 3 SATAIII, TPM 1.2 / 2.0 (optional)
- Supports WISE-PaaS/RMM and Embedded Software APIs

Software APIs:



Specifications

	CPU	KBL-S SKL-S	i7-7700 i7-6700	i7-7700T i7-6700TE	i5-7500 i5-6500	i5-7500T i5-6500TE	i3-7101E i3-6100	i3-7101TE i3-6100TE	- Pentium G4400/4400TE	- Pentium G3900/3900TE
Processor System	Core Number		4	4	4	4	2	2	2 / 2	2 / 2
	Max Speed	KBL-S	3.6GHz	2.9GHz	3.4GHz	2.7GHz	3.9GHz	3.4GHz	3.3GHz /	2.8GHz /
		SKL-S	3.4GHz	2.4GHz	3.2GHz	2.3GHz	3.7GHz	2.7GHz	2.9GHz	2.6GHz
	L3 Cache		8M	8M	6M	6M	4M	4M	3M / 3M	2M / 2M
	TDP		65W	35W	65W	35W	54W / 51W	35W	54W / 35W	51W / 35W
	Chipset		H110							
BIOS		AMI EFI 128 Mbit SPI								
Expansion Slot	Mini-PCle	1 F/S miniPCle slot support mSATA; 1 H/S miniPCle slot with SIM card holder								
	PCIe x4 (Gen3)	4 GB/s per direction, 1 slot								
Memory	Technology	Dual Channel DDR4 2400/2133 MHz SDRAM								
	Max. Capacity	32GB (up to 16GB per SO-DIMM)								
	Socket	2 x 260 PIN DDR4 SO-DIMM (Non-ECC)								
Graphics	Controller	Supports OpenGL 5.x, DirectX12, OpenCL 2.X								
	VRAM	Shared system memory, 2 GB and above, total system memory shared 1 GB maximum video memory								
	VGA	Yes, supports max. resolution 1920 x 1200 @ 60 Hz								
	LVDS	Supports dual channel 48-bit up to 1920 x 1200 (BOM optional for G2/L sku)								
	HDMI	Yes, supports max. resolution 4096 x 2160 @ 24 Hz (HDMI 1.4)								
	Display Port 1.2	Yes, supports max. resolution 4096 x 2160 @ 60Hz								
Ethernet	Dual Display	DP+HDMI, DP+VGA, HDMI+VGA, DP+LVDS, HDMI+LVDS, VGA+ LVDS								
	Interface	10/100/1000 Mbps								
	Controller	GbE LAN: Realtek 8111H x2								
SATA	Connector	RJ-45 x 2								
	Max Data Transfer Rate	600 MB/s (SATA 3.0)								
Rear I/O	Channel	3 (SATA III)								
	HDMI	1 (HDMI 1.4)								
	Display Port 1.2	1								
	Ethernet	2								
	USB	4 (USB 3.0)								
Internal Connector	Audio	2 (Mac-in, Line-out) *(“Mic-in” could be configured as “Line-in” under Win OS.)								
	DC Jack	1								
	USB	4 (USB 2.0)								
	LVDS/ nverter	1 (BOM optional for G2/L sku)								
	Serial	2 (one support RS-232/422/485 and one support 5V/12V)								
	SATA	3 (SATA III)								
Watchdog Timer	Mini-PCle	2 (1 F/S and 1 H/S)								
	GPIO	8-bit								
Power Requirements	Output	System reset								
	Interval	Programmable 1 ~ 255 sec/min								
Environment	Input power	ATX								
	Temperature	Win Idle 9.3W (Intel core i7-7700 3.6GHz / DDR4 2133 MHz 16G x 2)							Non-Operating	
Physical Characteristics	Operating	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution							-40 ~ 85° C (-40 ~ 185° F)	
	Dimensions	170 mm x 170 mm (6.69" x 6.69")								

