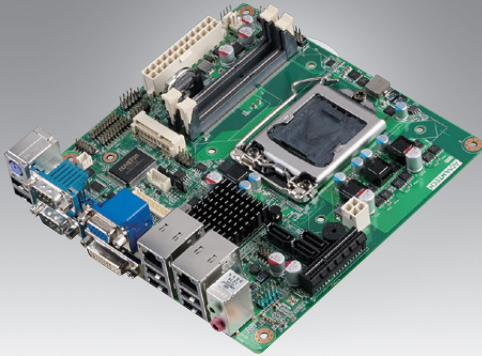


AIMB-281

Intel® Xeon E3/ Core™ i7/i5/i3/Celeron LGA1155 Mini-ITX with CRT/DVI/LVDS, 6 COM, Dual LAN, PCIe x4

NEW



Features

- Support Intel Xeon E3/ Core i7/i5/i3/ Pentium / Celeron desktop processor (LGA) with Intel H61 chipset
- Supports dual display for VGA, DVI, LVDS
- Support PCIe x4 (Gen 2) and mini PCIe
- Support 8 USB, 6 COMs, 3 SATA II, 8 bit GPIO
- Support embedded software APIs and Utilities
- Two 204-pin SO-DIMM up to 8GB DDR3 1066/1333/1600 MHz SDRAM

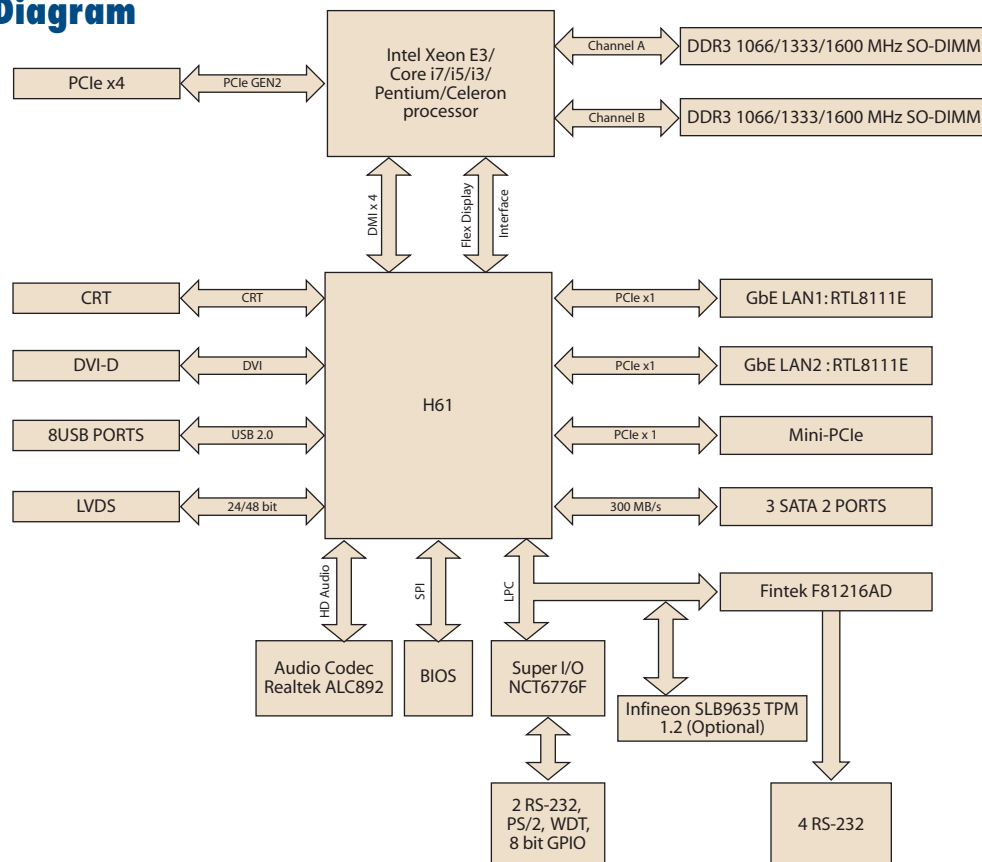
Software APIs:

Utilities:

Specifications

Processor System	CPU	Intel Xeon E3-1275	Core i7-3770	Core i5-3550S	Core i3-3220	Pentium G2120	Celeron G1620
	Core Number	4	4	4	4	4	4
	Max Speed	3.5 GHz	3.5 GHz	3.0 GHz	3.0 GHz	3.1 GHz	2.7 GHz
	L3 Cache	8 MB	8 MB	6 MB	3 MB	3 MB	2 MB
	Chipset	H61					
Expansion Slot	BIOS	AMI EFI 32 Mbit SPI					
	PCI	-					
	Mini-PCIe	1					
Memory	PCIe x4 (Gen2)	8 GB/s per direction, 1 slot					
	Technology	Dual Channel DDR3 1066/1333/1600 MHz SDRAM					
	Max. Capacity	8 GB/4 GB per SO-DIMM					
Graphics	Socket	2x 204 PIN DDR3 SO-DIMM (Non-ECC)					
	Controller	Intel HD P3000/ 4000 graphics engine supports up to DirectX 11, Shader Model 4.1 and OpenGL 3.0					
	VRAM	Share memory up to 256MB					
	CRT	Yes, supports max. resolution 2048 x 1536					
	LVDS	Support Dual channel 48 bit and up to 1920 x 1200					
	DVI	Yes, supports max resolution 1920 x 1200					
Ethernet	Dual Display	CRT+LVDS, CRT+DVI, DVI+LVDS					
	Interface	10/100/1000 Mbps					
	Controller	2 x RTL8111E					
SATA	Connector	RJ-45 x 2					
	Max Data Transfer Rate	300 MB/s (SATA 2.0)					
Rear I/O	Channel	3					
	VGA	1					
	DVI	1					
	Ethernet	2					
	USB	6 (USB2.0)					
	Audio	2 (Mic-In, Line-out)					
	Serial	2 (RS-232)					
Internal Connector	PS/2	1					
	USB	2 (USB 2.0)					
	LVDS/ inverter	1/1					
	Serial	4 (RS-232)					
	IDE	-					
	SATA	3 (SATA 2.0)					
	Mini-PCIe	1					
	Parallel	1					
Watchdog Timer	IrDA	-					
	GPIO	8-bit					
Power Requirements	Output	System reset					
	Interval	Programmable 1 ~ 255 sec/min					
	Power On	Intel Core i7-2700K 3.5GHz, 4GB DDR3 1333MHz SDRAM					
Environment	+12V					+5V	+3.3V
	13.35A					3.74A	2.19A
Physical Characteristics	Operating					Non-Operating	
	Temperature	0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution				-20 ~ 70° C (-4 ~ 158° F)	
	Dimensions	170 mm x 170 mm (6.69" x 6.69")					

Block Diagram



Ordering Information

Part Number	Chipset	CRT	DVI	LVDS	GbE LAN	COM
AIMB-281G2-00A1E	H61	Yes	Yes	Yes	2	6

Optional Accessories

Part Number	Description
17AD14GS0300046A92	USB 2 Port Cable w/o bracket PH=2.00mm L=25cm
19AD13GS0700149C13	CPU Cooler (for standard chassis)

Packing List

Part Number	Description	Quantity
1700020939-01	SATA HDD cable (180° ~ 90°)	1
1700020946-01	SATA HDD cable (180° ~180°)	1
17AD14GS0000073V04	1-to-4 serial ports cable kit	1
1960062821T000	I/O port bracket	1
2006028110	Starup manual	1
2066028100	Driver CD	1
2006028100	User manual	

Embedded OS/API

OS/API	Part Number	Description
Win XPE	2070012450	WES2009
WES7	2070012451	WES7E x64 Embedded
	2070012462	WES7E x86 Embedded
WES8	TBD	Win 8 Embedded

I/O View

