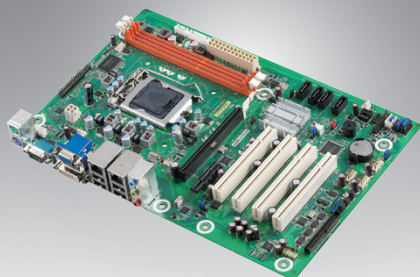


SIMB-A21

Intel LGA1155 Core i7/i5/i3, Celeron ATX with VGA/DVI, 6 COM and Dual LAN

Preliminary



Features

- Intel LGA1155 socket supports Intel Core i7/i5/i3/Celeron processor
- Intel H61 Chipset
- Two 240-pin SODIMM sockets supports up to 8GB DDR3 1066/1333 MHz SDRAM
- Intel® HD Graphics 2000/3000 supports DirectX 10
- Realtek ALC892 supports 5.1 + 2 channel HD audio
- Dual Realtek RTL8111E Gigabit LAN
- 1 PCIe x 16, 1 PCIe, 4 PCI
- 6 COM (1 x RS232 w/ power, 1 x RS422/485 with power, 4 x RS-232)
- 8-bit GPIO

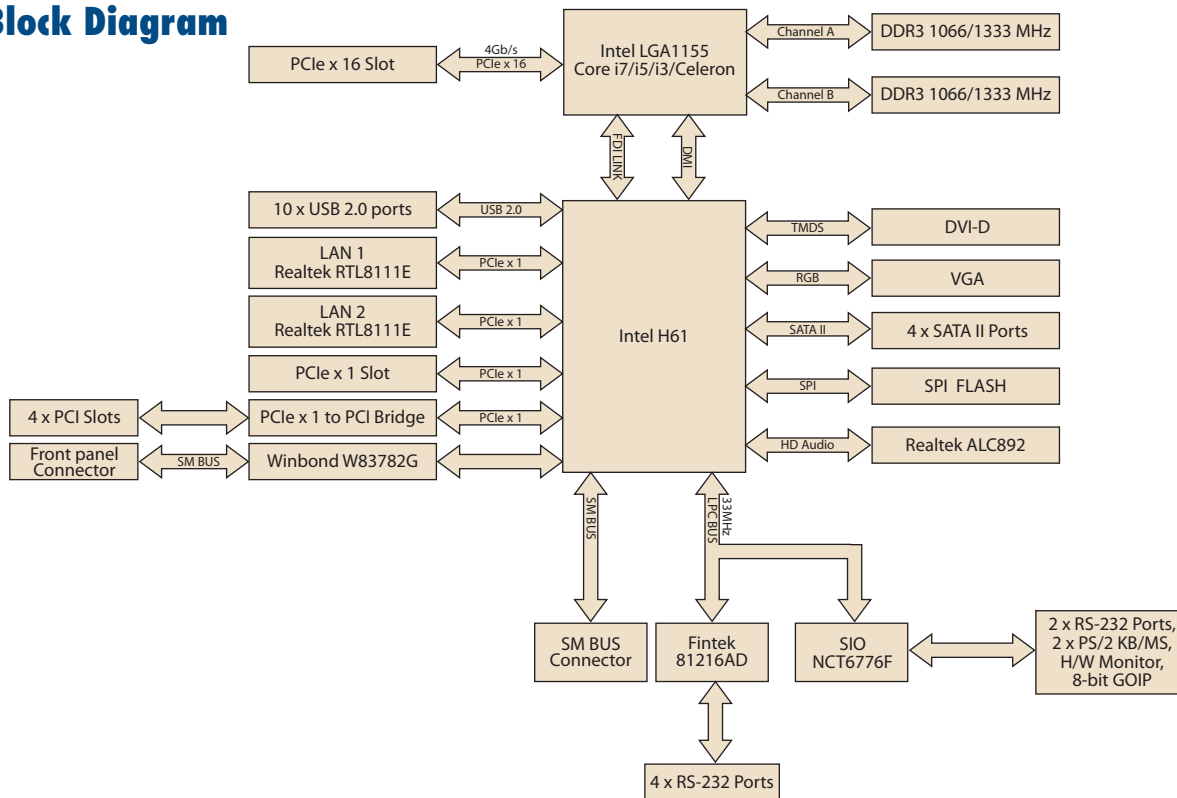


CE FCC

Specifications

Processor System	CPU	Intel Core 2nd gen. i7	Intel Core 2nd gen. i5	Intel Core 2nd gen. i3	Intel Celeron
	Core Number	4	4	2	2
	Max. Speed	i7-2600 3.4 GHz	i5-2400 3.1 GHz	i3-2120 3.3 GHz	Celeron G540 2.5 GHz
	L2 Cache	8 MB	6 MB	3 MB	2 MB
	Chipset	Intel H61			
	BIOS	AMI 32 Mbit, SPI			
	Front Side Bus	1066/1333 MHz			
Expansion Slot	PCI	32-bit/33 MHz, 4 slot			
	PCIe x 16	4.0 GB/s per direction, 1 slot			
	PCIe	250 MB/s per direction, 1 slot			
	Mini-PCIe	-			
Memory	Technology	Dual channel DDR3 1066/1333 MHz			
	Max. Capacity	8GB			
	Socket	2 x 240-pin DIMM			
Graphics	Controller	Intel® HD Graphics 2000/3000			
	VRAM	Shared memory up to 224 MB			
	VGA	1, supports max. resolution 2048 x 1536			
	DVI-D	1, supports max. resolution 1920 x 1200			
	Dual Display	VGA + DVI			
Ethernet	Interface	10/100/1000 Mbps			
	Controller	GbE-LAN1: Realtek RTL8111E, GbE-LAN2: Realtek RTL8111E			
	Connector	RJ-45 x 2			
SATA	Max Data Transfer Rate	300 MB/s			
SSD	Channel	4			
	SATA DOM	Power Pin7 of SATA 1			
Rear I/O	VGA	1			
	DVI-D	1			
	Ethernet	2			
	USB	4 (USB 2.0)			
	Audio	3 (Line-out, Line-in, Mic-in)			
	Serial	1 (RS-232 w/ 5V/12V)			
	PS/2	2 (1 x keyboard and 1 x mouse)			
	Internal Connector	USB	6 (USB 2.0)		
Serial		5 (1 x RS-232/422/485 and 4 x RS-232)			
SATA		4 (SATA II)			
Parallel		1 LPT Port header (2 x 13 pin)			
GPIO		8-bit (4-bit DI and 4-bit DO)			
Watchdog Timer		Output	System reset		
	Interval	Programmable 1~ 255 sec/min			
Security	TPM	Optional Module via TPM Header			
Power Requirement	Power On	+12V	+5V	+3.3V	5VSV -12V
		To be measured			
Environment	Temperature	Operating			Non-Operating
		0 ~ 50° C (32 ~ 140° F)			-20 ~ 70° C (-4 ~ 158° F)
Physical Characteristics	Dimensions	305mm x 203 mm (12" x 8.0")			

Block Diagram



Ordering Information

P/N	CPU	Chipset	VGA	GbE	USB	COM	SATA
SIMB-A21-8VG00A1E	Intel Core i7 / i5 / i3 / Celeron	Intel H61	1	2	10 (4 Rear, 6 Internal)	6 (1 Rear, 5 Internal)	4 SATA II

Note: Minimum order quantity is 200 pieces

I/O View



Packing List

Description	Quantity
SATA Cable Kit (SATA/POWER)	1
I/O Shield	1
Startup Manual	1 (per 10 units)
Driver CD	1 (per 10 units)

Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
1700008461	USB cable with two ports, 30.5 cm

Remark: Not recommended to use Advantech Cooler (P/N 1750000334) with SIMB-A21

- Computer On Modules 1
- MI/O Extension SBC 2
- PC/104 CPU Modules 3
- 3.5" SBCs 4
- EPIC/ EBK/ 5.25" SBCs 5
- Industrial Motherboards 6
- Semi-Industrial Motherboards 7
- RISC 8
- Industrial Storage Modules 9
- Industrial Memory Modules 10
- Embedded Wireless Modules 11
- Embedded Touch Modules 12
- Industrial Display Solutions 13