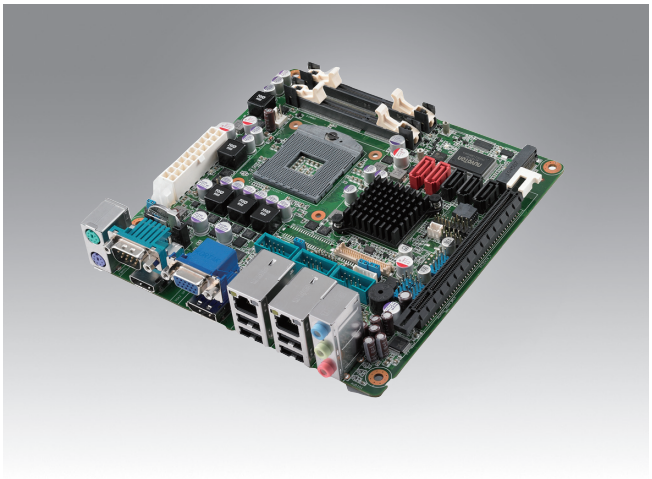
SIMB-M21

Intel® Core™ i7/i5/i3/Celeron® Mini-ITX with VGA/HDMI/LVDS/Display Port, 4 COM and Dual LAN



Features

- Intel rPGA988 socket supports Mobile Intel® Core™ i7/ i5/ i3/ Celeron® processor
- Intel HM65 chipset
- Intel GMA HD 2000/ 3000 supports DirectX 10.1, OpenGL 3.0
- Two 204-pin SODIMM sockets support up to 16 GB DDR3 1333/ 1066 SDRAM
- Dual Intel Gigabit LAN : Intel 82579LM (LAN 1), Intel 82583V (LAN 2)
- Supports multiple dual display functions : VGA, HDMI, DisplayPort, dual channel 24-bit LVDS
- 1 PCIe x16 Gen. 2, 1 mini PCIe, 1 CFast
- 2 SATA III and 3 SATA II
- 4 COM (3 with Power), 10 USB 2.0

Windows Embedded

RoHS COMPLIANT 2002/95/EC

CE FCC

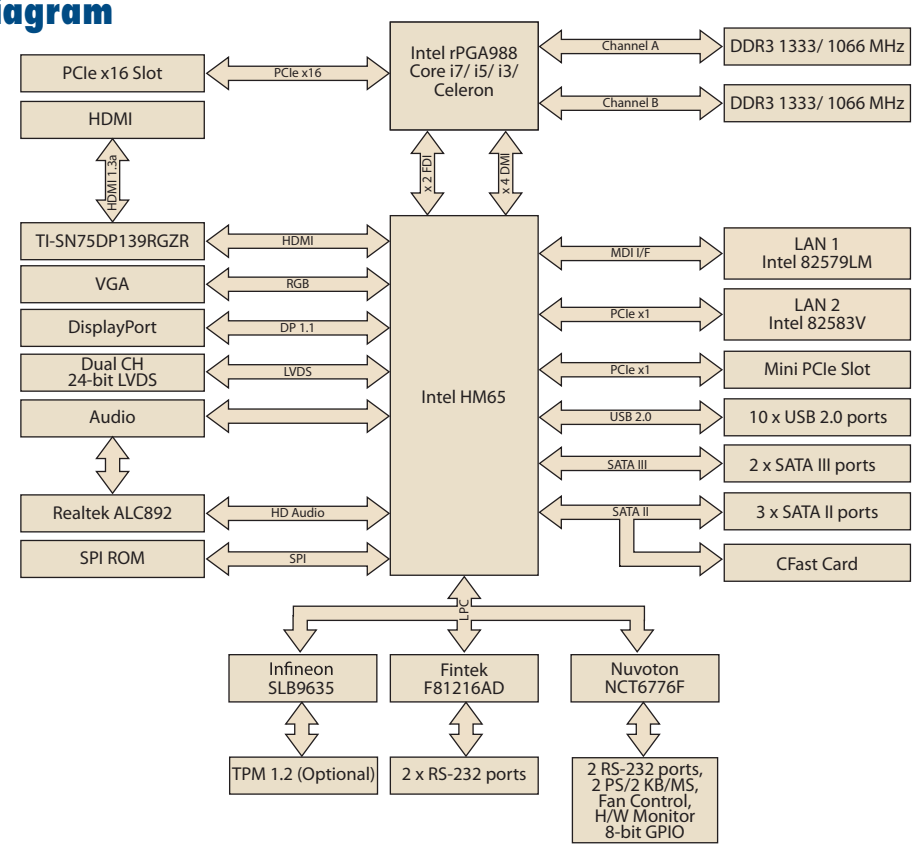
Specifications

Processor System	CPU	Intel Core i7-2710QE	Intel Core i5-2510E	Intel Core i3-2330E	Intel Celeron B810	
	Core Number	4	2	2	2	
	Max. Speed	2.1 GHz	2.5 GHz	2.1 GHz	1.6 GHz	
	L2 Cache	6 MB	3 MB	3 MB	2 MB	
	Chipset	Intel HM65				
	BIOS	AMI 64 Mbit , SPI				
Expansion Slots	PCI	-				
	PCIe x16	4.0 GB/s per direction, 1 slot				
	PCIe x1	-				
	Full-size Mini PCIe	1				
Memory	Technology	Dual channel DDR3 1066/1333 MHz				
	Max. Capacity	16 GB				
	Socket	2 x 204-pin SODIMM				
Graphics	Controller	Intel Graphics Media Accelerator HD 2000/3000				
	VRAM	Shared system memory up to 1.7 GB SDRAM				
	VGA	1, supports max. resolution 2048 x 1536				
	LVDS	1, dual channel 24-bit LVDS supports max resolution 1600 x 1200				
	HDMI	1, HDMI 1.3 supports max resolution 1920 x 1080				
	Display Port	1, supports max resolution 2560 x 1600				
	Dual Display	VGA + LVDS, VGA + DisplayPort, VGA + HDMI, DisplayPort + HDMI, LVDS + HDMI, LVDS + DisplayPort				
Ethernet	Interface	10/100/1000 Mbps				
	Controller	GbE-LAN1: Intel 82579LM , GbE-LAN2: Intel 82583V				
	Connector	RJ-45 x 2				
SATA	Max Data Transfer Rate	600 MB/s (SATA III) / 300 MB/s (SATA II)				
	Channel	2/3				
SSD	CFast	1				
Rear I/O	VGA	1				
	Display Port	1				
	HDMI	1				
	Ethernet	2				
	USB	4 (USB 2.0)				
	Audio	3 (Line-out, Line-in, Mic-in)				
	Serial	1 (RS-232)				
	PS/2	2 (1 x keyboard and 1 x mouse)				
Internal Connectors	LVDS & Inverter	1				
	USB	6 (USB 2.0)				
	Serial	3 (RS-232)				
	SATA	5 (2 SATA III, 3 SATA II)				
	GPIO	8-bit (4-bit DI and 4-bit DO)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1~ 255 sec/min				
Security	TPM	Optional				
Power Requirements	Power On	+12 V	+5 V	+3.3 V	-12 V	5 Vsb
		2.59 A	0.97 A	1.10 A	0.56 A	0.31 A
Environment	Temperature	Operating		Non-Operating		
		0 ~ 50° C (32 ~ 122° F)		-20 ~ 70° C (-4 ~ 158° F)		
Physical Characteristics	Dimensions	170 x 170 mm (6.69" x 6.69")				

All product specifications are subject to change without notice

Last updated : 6-Mar-2014

Board Diagram



Ordering Information

P/N	CPU	Chipset	VGA	GbE	USB	COM	SATA
SIMB-M21-7G200A1E	Intel Core i7/i5/i3/ Celeron Mobile Processor	Intel HM65	1	2	10 (4 Rear, 6 Internal)	4 x RS-232 (1 Rear, 3 Internal)	5 (2 SATA III, 3 SATA II)

Note: Minimum order quantity is 10 pieces

Packing List

Description	Quantity
SATA cable kit (SATA/POWER)	1
I/O shield	1
CPU Cooler (25mm Height)	1
Startup manual	1 (per 10 units)
Driver CD	1 (per 10 units)

Remark: If Intel Core i7 45W is used, it is highly recommended to select CPU Cooler (40.1 mm Height, P/N 19AD13GS0700145H35) instead.

Optional Accessories

Part Number	Description
1700003195	USB cable with two ports, 17.5 cm
1700002204	USB cable with two ports, 27 cm
19AD13GS0700145H35	CPU Cooler (40.1 mm Height) recommended for use with Core i7 45W
1700008461	USB cable with two ports, 30.5 cm
1700019549	COM port cable with bracket, 40 cm
1700021716-01	COM port cable w/o bracket, 10 cm

I/O View

