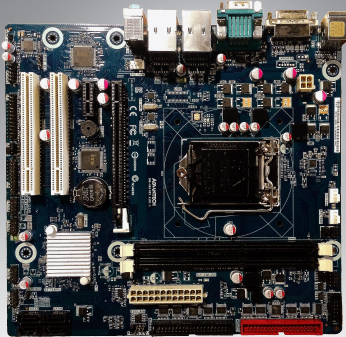


# SIMB-683

## Intel® H81 with Intel Core™ i7/ i5/ i3 Micro-ATX Motherboard



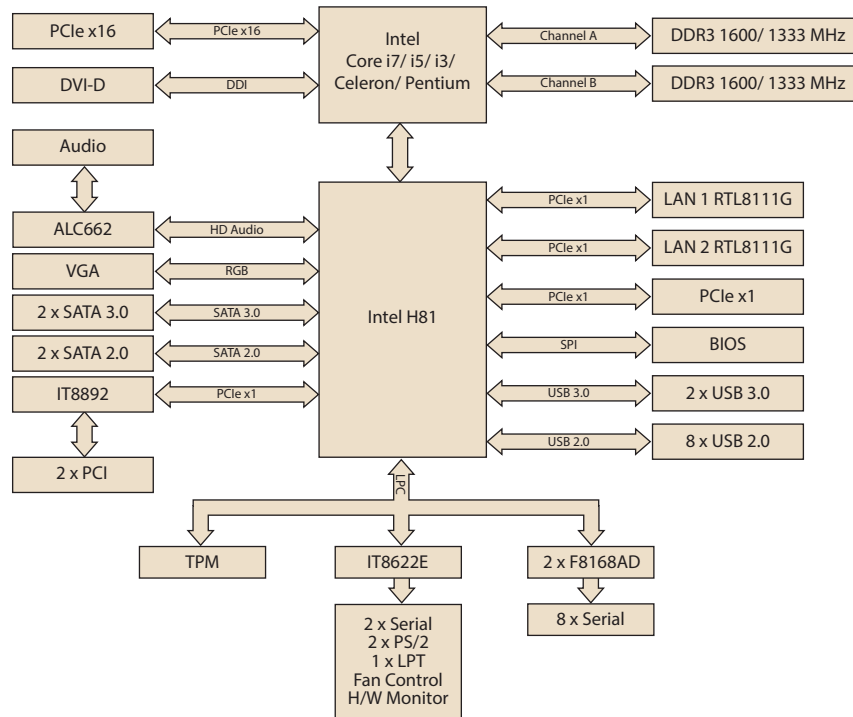
### Features

- Intel LGA1150 Socket supports the 4th Generation Intel Core i7/ i5/ i3, Celeron® and Pentium® processor family
- Supports 2 DIMM slots, 16GB DDR3 1600/ 1333 MHz SDRAM
- Supports VGA + DVI-D dual independent display configuration
- Integrated Intel HD Graphics engine supports DirectX 11.1, OpenGL 4.x, OpenCL 1.2 and outstanding 3D graphics performance
- Supports 2 x PCIe and 2 x PCI expansion slots
- Supports 10 serial and 1 parallel

### Specification

Processor	CPU	Intel Core i7/ i5/ i3/ Celeron/ Pentium processor				
	Max. Speed	Up to 3.9GHz				
	Socket	LGA1150				
	Cache	Up to 8MB				
	BIOS	AMI EFI 64Mbit SPI				
Memory	Technology	Dual channel DDR3 1600/ 1333 MHz SDRAM (Non-ECC)				
	Max. Capacity	8GB per socket				
	Socket	2 x 240-pin DIMM				
Graphics	Controller	Integrated Intel HD Graphics engine				
	VRAM	Shared memory up to 256MB				
	VGA	Up to SXGA 1920 x 1200 (@60Hz)				
	DVI-D	Up to 1920 x 1080 (@60Hz)				
	Dual Display	VGA + DVI-D				
Ethernet	Interface	10/100/1000 Mbps Realtek				
	LAN1 Controller	RTL8111E GbE LAN				
	LAN2 Controller	RTL8111E GbE LAN				
	Connector	2 x RJ-45				
Expansion Slot	PCIe x1 (Gen2)	1 (500MB/s per direction)				
	PCIe x16 (Gen2)	1 (8GB/s per direction)				
	PCI	2 (32-bit/33MHz)				
Storage	SATA 3.0	2 (600MB/s per port)				
	SATA 2.0	2 (300MB/s per port)				
Audio	Codec	Realtek ALC662				
	Connector	Line-in, Line-out, Mic-in				
Rear I/O Connector	VGA	1				
	DVI-D	1				
	RJ-45	2				
	USB	2 x USB2.0, 2 x USB3.0				
	Serial	1 x RS-232				
	Audio	3 (Line-in, Line-out, Mic-in)				
	PS/2	2				
Internal Connector	USB 2.0	3 for 6 x USB 2.0 port				
	Serial	8 x RS-232, 1 x RS-232/ RS-422/ RS-485 with 5V/ 12V power				
	SATA 3.0	2				
	SATA 2.0	2				
	TPM	1				
	CPU Fan	1				
	System Fan	1				
	Front Audio	1				
	Front Panel	1				
	GPIO	1 (4-bit)				
Watchdog Timer	Output	System reset				
	Interval	Programmable 1-255 sec/min				
	Power Requirement	+12V (22A)	+5V (20A)	+3.3V (15A)	-12V (0.1A)	5VSB (2A)
	Power Type	ATX				
	Power Connector	1 x 24-pin ATX, 1 x 4-pin ATX 12V				
Environment	Operation Temperature	0 ~ 60° C (32 ~ 140° F)				
	Non-Operation Temperature	-40 ~ 85° C (-40 ~ 185° F)				
	Operation Humidity	0% ~ 90% relative humidity, non-condensing				
Physical Characteristics	Dimensions	244 x 229 mm (9.6" x 9)				
	Weight	0.5 Kg				

## Block Diagram



## Ordering Information

Part Number	Chipset	VGA	DVI-D	LAN	PCIe x16	PCIe x1	PCI	USB	Serial
SIMB-68300-00A1E	H81	1	1	2	1	1	2	10	10

## Packing List

Description	Qty
I/O shield	1
Startup manual	1 (per 20 units)
Driver CD	1 (per 20 units)

## Optional Accessories

Part Number	Description
1700003195	USB2.0 cable for 1-to-2 ports, 17.5cm
1700020942-01	Serial cable, 26cm
1700008809	Printer cable w/ bracket, 25cm
1700003194	SATA cable, 60cm, 180degree

## I/O View

