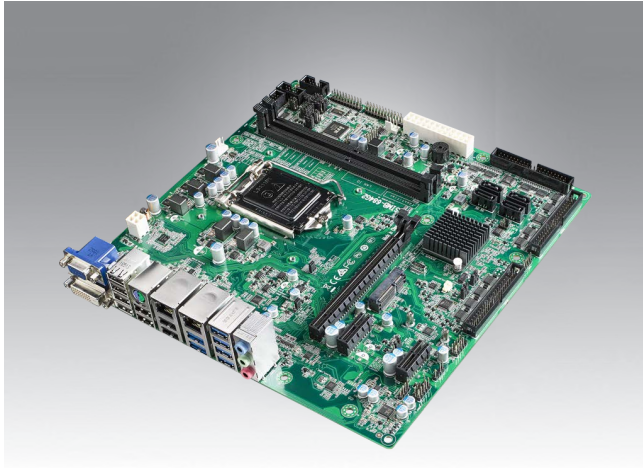


SIMB-684G2

Intel® H110 with Intel Core™ i7/ i5/ i3 Micro-ATX Motherboard



Features

- Supports the 6&7th Generation Intel Core i7/ i5/ i3, Celeron® and Pentium® processor family with H110 chipset
- Supports 2 DIMM slots, 32GB DDR4, up to 2133MHz SDRAM
- Supports VGA , DVI-D, dual independent display configuration
- Support Dual GbE LAN, 4 x SATAIII, PCIe16 Gen3
- Supports 2 x PCIe1
- Supports 14 serial ports
- Supports 16 USB ports (5 USB ports with Power Reset function)

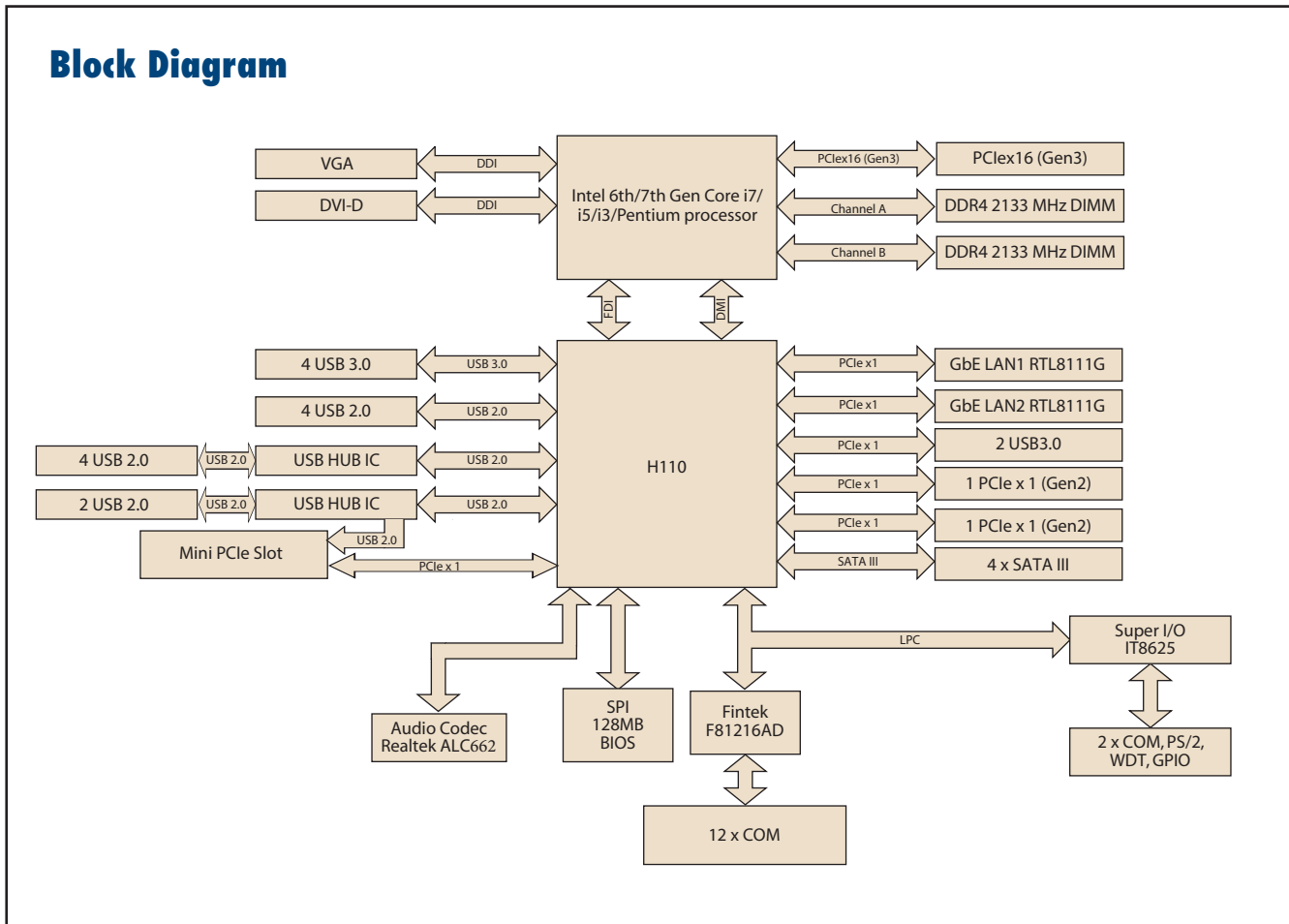
Software APIs:



Specification

Processor System	CPU	i7-6700/ i7-7700	i7-6700TE/ i7-7700T	i5-6500/ i5-7500	i5-6500TE/ i5-7500T	i3-6100/ i3-7101E	i3-6100TE/ i3-7101TE	Pentium G4400TE	Pentium G4400TE	Celeron G3900	Celeron G3900TE	
	Core Number	4	4	4	4	2	2	2	2	2	2	
	Max Speed	3.4G/3.6G	2.4G/2.9G	3.2G/3.4G	2.3G/2.7G	3.7G/3.9G	2.7G/3.4G	3.3G	2.4G	2.8G	2.6G	
	L3 Cache	8M	8M	6M	6M	3M	4M	3M	3M	2M	2M	
	TDP	65W	35W	65W	35W	65W	35W	65W	35W	65W	35W	
	Chipset	H110										
	BIOS	AMI EFI 128 Mbit SPI										
Memory	Technology	Dual channel DDR4 2133 MHz SDRAM (Non-ECC)										
	Max. Capacity	Up to 32GB (16GB per DIMM)										
	Socket	2 x 288-pin DIMM										
Graphics	Controller	Integrated Intel® HD Graphics 530										
	VRAM	Shared system memory, 2 GB and above, total system memory shared 1 GB maximum video memory										
	DVI-D	Max. resolution 1920 x 1200 @ 60 Hz										
	VGA	Max. resolution 1920 x 1200 @ 60 Hz										
Ethernet	Dual Display	Yes (VGA+DVI-D)										
	Interface	10/100/1000 Mbps										
	LAN 1 Controller	Realtek RTL8111G GbE LAN										
	LAN 2 Controller	Realtek RTL8111G GbE LAN										
	Connector	2 x RJ-45										
Expansion Slot	PCIe x16 (Gen3)	1 (16GB/s per direction)										
	PCIe x 1 (Gen2)	2 (0.5 GB/s per direction)										
	PCI	N/A										
	Mini PCIe	1 F/S (H/S) miniPCIe slot support PCIe/USB										
Storage	SATA 3.0	signal 4 (600MB/s per port)										
	SATA 2.0	N/A										
	mSATA	N/A										
Rear I/O Connector	VGA	1										
	DVI-D	1										
	USB 2.0	8										
	USB 3.0	6										
	RJ-45	2										
	Audio	3 (Line-in, Line-out, Mic-in)										
Internal Connector	USB 2.0	2										
	Serial	12 x RS-232 , 2 x RS-232/ RS-422/ RS-485 with selectable RI/ 5V/ 12V power										
	SATA 3.0	4										
	FAN	1 x system FAN header, 1 x CPU FAN header										
	Case open	1										
	TPM	1										
Watchdog Timer	GPIO	1 (8-bit)										
	Output Interval	System reset Programmable 1-255 sec/min										
Power	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)										
Physical Characteristics	Dimensions	244 x 244 mm (6.7" x 6.7")										
	Weight	0.5 Kg										

Block Diagram



Ordering Information

Part Number	Chipset	Memory	VGA	DVI-D	USB 3.0	USB 2.0	COM	SATA	GbE LAN	PCle x16	PCle x1	miniPCle
SIMB-684G200-00A1E	H110	2	1	1	6	10	14	4	2	1	2	1

Packing List

Description	Qty
I/O Shielding	1

I/O View



Optional Accessories

Part Number	Description
1700002204	USB cable with dual ports, 27 cm
1960053207N001	LGA1150 CPU cooler for CPU TDP 65W, 92.9 (W) x 92.9 (L) x 46 (H) mm
1960060732N001	LGA1150 CPU cooler for CPU TDP 45W, 80 (W) x 80 (L) x 32.2 (H) mm
17AD14GS0000083V04	DB 9P/M to IDC 10P cable
1700400280-01	F Cable IDE#2 40P-2.54/D-SUB 9P(M)*4 27.9CM
1700026163-01	F cable D-SUB 9P(M)/IDE#3 10P-2.0 60cm W/BKT
1700008809	Printer port cable kit, 25cm W/BNK