IMB-381 (Preliminary)

Advansus

Intel® H61 with Intel Xeon® E3/ Core™ i7/ i5/ i3 Mini-ITX Motherboard



Features

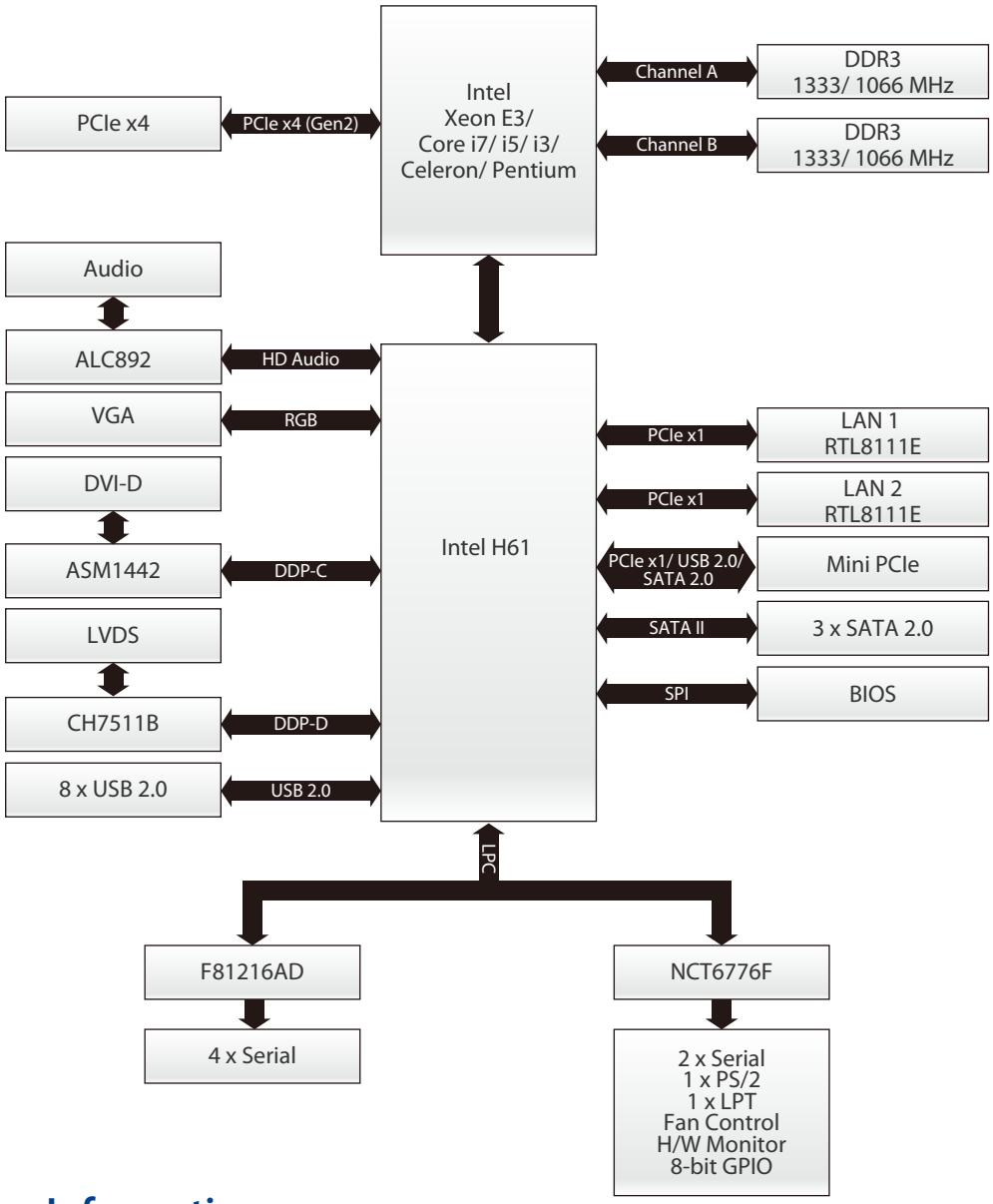
- Supports the 3rd and the 2nd Generation Intel Xeon E3, Core i7/ i5/ i3, Celeron® and Pentium® Processor family
- Supports 2 SO-DIMM slots up to 16GB DDR3 1333/ 1066 MHz SDRAM
- Supports dual independent display configuration by multiple display interface : VGA, DVI-D and LVDS
- Supports DirectX 10.1, OpenGL 3.0 and Shader Model 4.1
- Supports Windows XP and XPe for the backward operating system compatibility

Specifications

Processor	
CPU	Intel Xeon E3/ Core i7/ i5/ i3/ Celeron/ Pentium processor
Socket	LGA1155
Max. Speed	Up to 3.9GHz
Cache	Up to 8MB
BIOS	AMI EFI 32Mbit SPI
Memory	
Technology	Dual channel DDR3 1333/ 1066 MHz SDRAM (Non-ECC)
Max. Capacity	8GB per socket
Socket	2 x 204-pin SO-DIMM
Graphics	
Controller	Integrated Intel HD Graphics engine
VRAM	Shared memory up to 256MB
VGA	Up to SXGA 2048 x 1536 (@60Hz)
DVI-D	Up to 1920 x 1200
LVDS	Up to 1920 x 1200
Dual Display	VGA+DVI-D, VGA+LVDS, DVI-D+LVDS
Ethernet	
Interface	10/100/1000 Mbps
LAN 1 Controller	Realtek RTL8111E GbE LAN
LAN 2 Controller	Realtek RTL8111E GbE LAN
Connector	2 x RJ-45
Expansion Slot	
Mini PCIe	1 for full/ half-length
PCIe x4 (Gen2)	1 (2GB/s per direction)
Storage	
SATA 2.0	3 (300MB/s per port)
mSATA	1 (300MB/s per port, by Mini PCIe slot)
Audio	
Codec	Realtek ALC892
Connector	Line-out, Mic-in

Rear I/O Connector	
VGA	1
DVI-D	1
RJ-45	2
USB 2.0	6
Serial	1 x RS-232, 1 x RS-232/ 422/ 485
Audio	2 (Line-out, Mic-in)
PS/2	1
Internal Connector	
USB 2.0	1 for 2 x USB 2.0 ports
Serial	2 for 4 x RS-232
SATA 2.0	3
LVDS	1
LVDS Inverter	1
CPU Fan	1
System Fan	1
Front Audio	1
Front Panel	1
GPIO	1 (8-bit)
LPT	1
Watchdog Timer	
Output	System reset
Interval	Programmable 1-255 sec/min
Power	
Power Requirement	+12V (21A) +5V (10A) +3.3V (4.5A) -12V (0.3A) 5VSB (2A)
Power Type	ATX Mode (supports AT Mode)
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	170mm x 170mm (6.69" x 6.69")
Weight	0.45 Kg

Block Diagram



Ordering Information

Part number	Chipset	VGA	LVDS	DVI	HDMI	DP	LAN	PCIex16	PCIex1	PCI	USB	Serial
TBD	H61	1	1	1	N/A	N/A	2	N/A	N/A	N/A	8	6
TBD	H61	1	1	1	N/A	N/A	1	N/A	N/A	N/A	8	6

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
1700008809	Printer cable w/ bracket, 25cm
1700003194	SATA2.0 cable, 60cm, 180degree

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