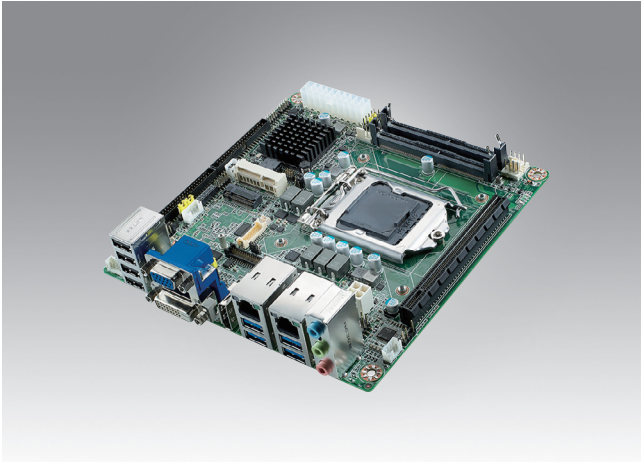


AIMB-205

Intel® Core™ i7/i5/i3 LGA 1151 Mini-ITX
with VGA/DP/DVI-D/LVDS(eDP), 8 COM,
Dual LAN, PCIe x16, M.2, DDR4



WISE-PaaS/RMM

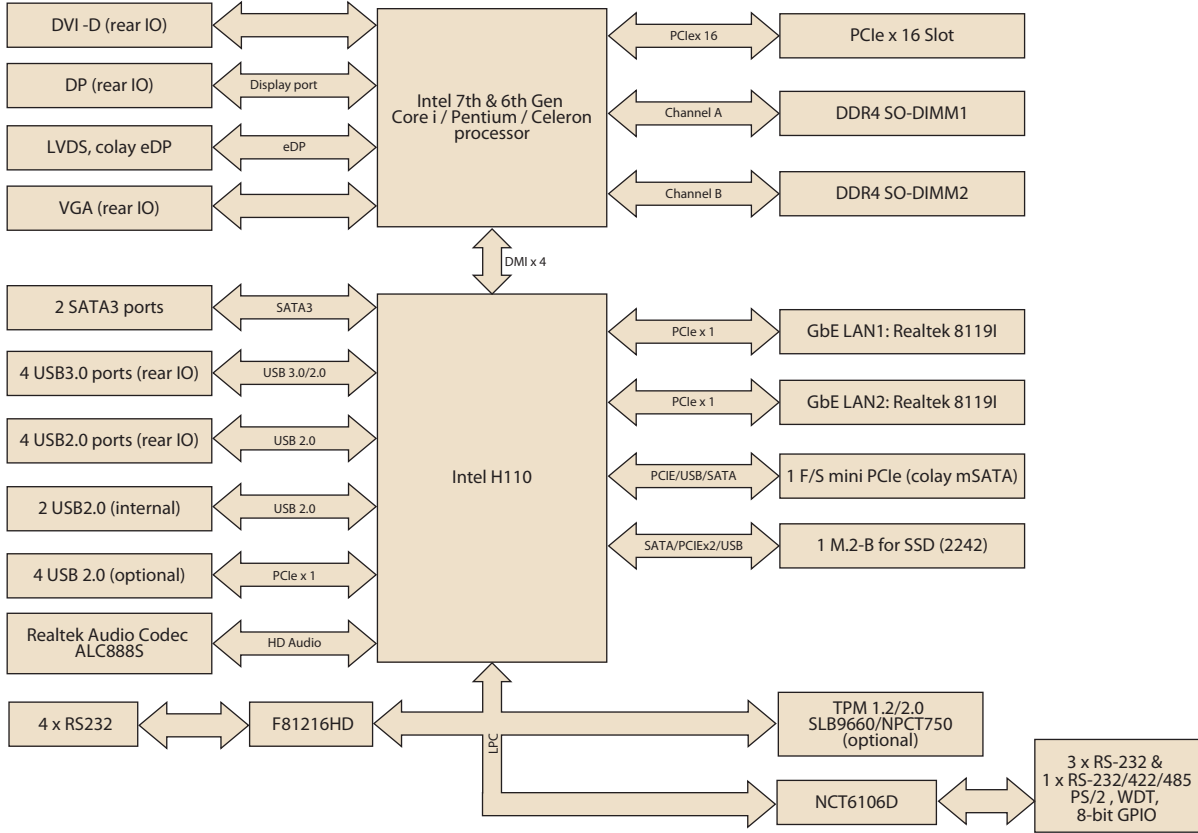
Features

- Supports Intel® 7th Gen Core™ & 6th Gen Core™ i processor /Pentium / Celeron (LGA1151) with Intel H110 chipset
- Two 260-pin SO-DIMM up to 32GB DDR4 2400/2133 MHz SDRAM
- Supports Dual display configuration by multiple interface: DP/DVI-D/VGA/LVDS(eDP)
- Supports DirectX 12, OpenGL 4.4, OpenCL 2.0 and outstanding 3D graphics performance
- Supports 1 F/S MiniPCIe and 1 M.2 2242 (B key for SSD)

Specifications

| | | i7-7700/ 7700T | i7-6700/ i7-6700TE | i5-7500/ i5-7500T | i5-6500/ i5-6500TE | i3-7101/ i3-7101TE | i3-6100/ i3-6100TE | Pentium G4400 | Pentium G4400TE | Celeron G3900 | Celeron G3900TE | |
|--------------------|---|---|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------|--------------------|------------------|--------------------|--|
| Processor System | CPU | i7-7700/ 7700T | i7-6700/ i7-6700TE | i5-7500/ i5-7500T | i5-6500/ i5-6500TE | i3-7101/ i3-7101TE | i3-6100/ i3-6100TE | Pentium G4400 | Pentium G4400TE | Celeron G3900 | Celeron G3900TE | |
| | Core Number | 4/4 | 4/4 | 4/4 | 4/4 | 2/2 | 2/2 | 2 | 2 | 2 | 2 | |
| | Max Speed | 3.6GHz/ 2.9GHz | 3.4GHz/ 2.4GHz | 3.4GHz/ 2.7GHz | 3.2GHz/ 2.3GHz | 3.9GHz/ 3.4GHz | 3.7GHz/ 2.7GHz | 3.3G | 2.4G | 2.8G | 2.6G | |
| | L3 Cache | 8M/8M | 8M/8M | 6M/6M | 6M/6M | 3M/3M | 3M/4M | 3M | 3M | 2M | 2M | |
| | TDP | 65W/35W | 65W/35W | 65W/35W | 65W/35W | 54W/35W | 51W/35W | 54W | 35W | 51W | 35W | |
| | Chipset | H110 | | | | | | | | | | |
| BIOS | AMI EFI 128 Mbit SPI | | | | | | | | | | | |
| Memory | Technology | Dual channel DDR4 2400/2133 MHz non ECC SDRAM (Only supports DDR4 2133 MHz SDRAM for SKL-S CPU) | | | | | | | | | | |
| | Max. Capacity | Up to 32GB (16GB per SO-DIMM) | | | | | | | | | | |
| | Socket | 2 x 260-pin SO-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 | | | | | | | | | | |
| | VGA | Max. resolution 1920 x 1200 @ 60 Hz | | | | | | | | | | |
| | DVI-D | Supports max. resolution 1920 x 1200 @ 60Hz | | | | | | | | | | |
| | Display Port | Max. resolution 4096 x 2304 @ 60Hz | | | | | | | | | | |
| | LVDS/eDP | LVDS: Supports dual channel 24-bit up to 1920 x 1200 / eDP:with internal pin header, supports max. resolution 4096 x 2304 @ 60 Hz | | | | | | | | | | |
| Dual Display | Yes (DP+VGA, DP+LVDS (or eDP), DP+DVI-D, DVI-D+VGA, DVI-D+LVDS (or eDP), VGA+LVDS (or eDP)) | | | | | | | | | | | |
| Ethernet | Interface | 10/100/1000 Mbps | | | | | | | | | | |
| | LAN 1 Controller | Realtek RTL8119I GbE LAN | | | | | | | | | | |
| | LAN 2 Controller | Realtek RTL8119I GbE LAN | | | | | | | | | | |
| | Connector | 2 x RJ-45 | | | | | | | | | | |
| Expansion Slot | M.2 | 1 M.2 2242 (B key for SSD) | | | | | | | | | | |
| | Mini PCIe | 1 F/S miniPCIe slot support mSATA | | | | | | | | | | |
| | PCIe x16 (Gen2/3) | 1 (16GB/s per direction) | | | | | | | | | | |
| Storage | SATA 3.0 | 2 (600MB/s per port) | | | | | | | | | | |
| Rear I/O Connector | DVI-D | 1 | | | | | | | | | | |
| | VGA | 1 | | | | | | | | | | |
| | DisplayPort | 1 | | | | | | | | | | |
| | RJ-45 | 2 | | | | | | | | | | |
| | USB 3.0 | 4 | | | | | | | | | | |
| | USB 2.0 | 4 | | | | | | | | | | |
| | Audio | 3 (line-in, line-out, mic-in) | | | | | | | | | | |
| Internal Connector | USB 2.0 | 6 (USB11-14 is BOM optional) | | | | | | | | | | |
| | Serial | 7 x RS232, 1 x RS232/422/485 COM1: supports 5V/12V by jumper selection, COM2: supports RS-232/422/485 by BIOS selection | | | | | | | | | | |
| | SATA 3.0 | 2 | | | | | | | | | | |
| | TPM | (optional SLB9660 TPM 1.2/ SLB9665 TPM 2.0) | | | | | | | | | | |
| | GPIO | 1 (8-bit) | | | | | | | | | | |
| Watchdog Timer | Output | System reset | | | | | | | | | | |
| | Interval | Programmable 1-255 sec/min | | | | | | | | | | |
| Power Requirements | Input Power | ATX Win Idle 10.43W (Intel core i7-7700 3.6GHz / DDR4 2133MHz 16GB x 2) | | | | | | | | | | |
| | Operation Temperature | 0 ~ 60° C (32 ~ 140° F) | | | | | | | | | | |
| Environment | Non-Operation Temperature | -40 ~ 85° C (-40 ~ 185° F) | | | | | | | | | | |
| | Dimensions | 170 x 170 mm (6.7" x 6.7") | | | | | | | | | | |

Block Diagram



Ordering Information

| P/N | Chipset | DP | DVI-D | VGA | LVDS/eDP | GbE LAN | COM | SATA | USB 3.0/2.0 | M.2 | Mini PCIe | TPM | AMP | PCIe x 16 |
|------------------|---------|----|-------|-----|----------|---------|-----|------|----------------------------------|------------------|--------------------|-----|-----|-----------|
| AIMB-205G2-00A2E | H110 | 1 | 1 | 1 | 1/(1) | 2 | 8 | 2 | 4/10 (USB 11~14 is BOM optional) | 1 (1 M.2-B 2242) | 1 F/S, colay mSATA | (1) | 1 | 1 |

*() BOM options available on MP version.

Packing List

| Part Number | Description | Quantity |
|----------------|----------------------------|----------|
| 1700003194 | SATA HDD cable | 1 |
| 1700008876 | 1-to-4 serial ports, 35 cm | 2 |
| 1960082356T000 | I/O port bracket | 1 |
| 2006B20500 | Startup manual | 1 |

Optional Accessories

| Part Number | Description |
|----------------|---|
| 1700026162-01 | USB 2.0 cable with two ports, 30 cm with bracket |
| 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 |
| 1703060191 | KB/MS cable 1*6P-2.0/M-DIN 6P(F)*2, 19cm |

Optional Chassis

| Part Number | Description |
|-----------------|--------------------------------|
| AIMB-B2000-15ZE | Mini-ITX chassis (w/ 150W PSU) |

Rear I/O



Embedded OS/API

| OS/API | Part No. | Description |
|---------------|----------------|--|
| Win10 IoT Ent | 2070015197 | img W10 16HL AIMB-205 64b 1701 ENU |
| Win10 IoT Ent | 2070015198 | img W10 16VL AIMB-205 64b 1701 ENU |
| WE8.1 | 2070015281 | img W81 IP AIMB-205 64b 1609 ENU |
| WES7E | 2070015407 | img WES7E AIMB-205 64b 1709 ASIA 4 MUI |
| WES7P | 20706WE7PS0003 | img WES7P AIMB-205 64b 1709 10 MUI |

**KBL-S CPU only support windows 10