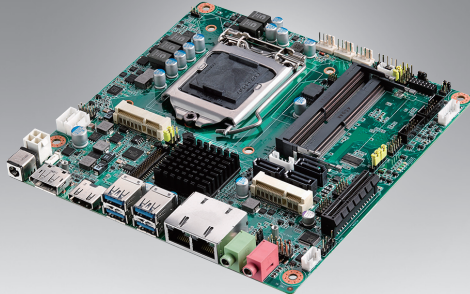


# AIMB-285

**Intel® Core™ i7/i5/i3 LGA 1151 Mini-ITX with DP<sup>++</sup>/HDMI/VGA, 2 COM, Dual LAN, PCIe x4, miniPCle, DDR4, DC Input**

**NEW**



**WISE-PaaS/RMM**

## Specifications

|                          | CPU                    | KBL-S<br>SKL-S | i7-7700<br>i7-6700                                                                         | i7-7700T<br>i7-6700TE | i5-7500<br>i5-6500 | i5-7500T<br>i5-6500TE | i3-7101E<br>i3-6100 | i3-7101TE<br>i3-6100TE | -<br>Pentium<br>G4400/4400TE | -<br>Pentium<br>G3900/3900TE |
|--------------------------|------------------------|----------------|--------------------------------------------------------------------------------------------|-----------------------|--------------------|-----------------------|---------------------|------------------------|------------------------------|------------------------------|
| Processor System         | Core Number            |                | 4                                                                                          | 4                     | 4                  | 4                     | 2                   | 2                      | 2 / 2                        | 2 / 2                        |
|                          | Max Speed              | KBL-S<br>SKL-S | 3.6GHz<br>3.4GHz                                                                           | 2.9GHz<br>2.4GHz      | 3.4GHz<br>3.2GHz   | 2.7GHz<br>2.3GHz      | 3.9GHz<br>3.7GHz    | 3.4GHz<br>2.7GHz       | 3.3GHz /<br>2.9GHz           | 2.8GHz /<br>2.6GHz           |
|                          | L3 Cache               |                | 8M                                                                                         | 8M                    | 6M                 | 6M                    | 4M                  | 4M                     | 3M / 3M                      | 2M / 2M                      |
|                          | TDP                    |                | 65W                                                                                        | 35W                   | 65W                | 35W                   | 54W / 51W           | 35W                    | 54W / 35W                    | 51W / 35W                    |
|                          | Chipset                |                | H110                                                                                       |                       |                    |                       |                     |                        |                              |                              |
|                          | BIOS                   |                | AMI EFI 128 Mbit SPI                                                                       |                       |                    |                       |                     |                        |                              |                              |
| Expansion Slot           | Mini-PCle              |                | 1 F/S miniPCle slot support mSATA; 1 H/S miniPCle slot with SIM card holder                |                       |                    |                       |                     |                        |                              |                              |
|                          | PCIe x4 (Gen3)         |                | 4 GB/s per direction, 1 slot                                                               |                       |                    |                       |                     |                        |                              |                              |
| Memory                   | Technology             |                | Dual Channel DDR4 2400/2133 MHz SDRAM                                                      |                       |                    |                       |                     |                        |                              |                              |
|                          | Max. Capacity          |                | 32GB (up to 16GB per SO-DIMM)                                                              |                       |                    |                       |                     |                        |                              |                              |
|                          | Socket                 |                | 2 x 260 PIN DDR4 SO-DIMM (Non-ECC)                                                         |                       |                    |                       |                     |                        |                              |                              |
| Graphics                 | Controller             |                | Supports OpenGL 5.x, DirectX12, OpenCL 2.X                                                 |                       |                    |                       |                     |                        |                              |                              |
|                          | VRAM                   |                | Shared system memory, 2 GB and above, total system memory shared 1 GB maximum video memory |                       |                    |                       |                     |                        |                              |                              |
|                          | VGA                    |                | Yes, supports max. resolution 1920 x 1200 @ 60 Hz                                          |                       |                    |                       |                     |                        |                              |                              |
|                          | LVDS                   |                | Supports dual channel 48-bit up to 1920 x 1200 (BOM optional for G2/L sku)                 |                       |                    |                       |                     |                        |                              |                              |
|                          | HDMI                   |                | Yes, supports max. resolution 4096 x 2160 @ 24 Hz (HDMI 1.4)                               |                       |                    |                       |                     |                        |                              |                              |
|                          | Display Port 1.2       |                | Yes, supports max. resolution 4096 x 2160 @ 60Hz                                           |                       |                    |                       |                     |                        |                              |                              |
| Ethernet                 | Dual Display           |                | DP+HDMI, DP+VGA, HDMI+VGA,DP+LVDS, HDMI+LVDS, VGA+ LVDS                                    |                       |                    |                       |                     |                        |                              |                              |
|                          | Interface              |                | 10/100/1000 Mbps                                                                           |                       |                    |                       |                     |                        |                              |                              |
|                          | Controller             |                | GbE LAN: Realtek 8111G x2                                                                  |                       |                    |                       |                     |                        |                              |                              |
| SATA                     | Connector              |                | RJ-45 x 2                                                                                  |                       |                    |                       |                     |                        |                              |                              |
|                          | Max Data Transfer Rate |                | 600 MB/s (SATA 3.0)                                                                        |                       |                    |                       |                     |                        |                              |                              |
| Rear I/O                 | Channel                |                | 3 (SATA III)                                                                               |                       |                    |                       |                     |                        |                              |                              |
|                          | HDMI                   |                | 1 (HDMI 1.4)                                                                               |                       |                    |                       |                     |                        |                              |                              |
|                          | Display Port 1.2       |                | 1                                                                                          |                       |                    |                       |                     |                        |                              |                              |
|                          | Ethernet               |                | 2                                                                                          |                       |                    |                       |                     |                        |                              |                              |
|                          | USB                    |                | 4 (USB 3.0)                                                                                |                       |                    |                       |                     |                        |                              |                              |
|                          | Audio                  |                | 2 (Mac-in, Line-out) *("Mic-in" could be configured as "Line-in" under Win OS.)            |                       |                    |                       |                     |                        |                              |                              |
| Internal Connector       | DC Jack                |                | 1                                                                                          |                       |                    |                       |                     |                        |                              |                              |
|                          | USB                    |                | 4 (USB 2.0)                                                                                |                       |                    |                       |                     |                        |                              |                              |
|                          | LVDS/nverter           |                | 1 (BOM optional for G2/L sku)                                                              |                       |                    |                       |                     |                        |                              |                              |
|                          | Serial                 |                | 2 (one support RS-232/422/485 and one support 5V/12V)                                      |                       |                    |                       |                     |                        |                              |                              |
|                          | SATA                   |                | 3 (SATA III)                                                                               |                       |                    |                       |                     |                        |                              |                              |
|                          | Mini-PCle              |                | 2 (1 F/S and 1 H/S)                                                                        |                       |                    |                       |                     |                        |                              |                              |
| Watchdog Timer           | GPIO                   |                | 8-bit                                                                                      |                       |                    |                       |                     |                        |                              |                              |
|                          | Output                 |                | System reset                                                                               |                       |                    |                       |                     |                        |                              |                              |
| Power Requirements       | Interval               |                | Programmable 1 ~ 255 sec/min                                                               |                       |                    |                       |                     |                        |                              |                              |
|                          | Input power            |                | ATX                                                                                        |                       |                    |                       |                     |                        |                              |                              |
| Environment              |                        |                | Win Idle 9.3W (Intel core i7-7700 3.6GHz / DDR4 2133 MHz 16G x 2)                          |                       |                    |                       |                     |                        |                              |                              |
|                          | Operating              |                |                                                                                            |                       |                    |                       |                     |                        | Non-Operating                |                              |
| Physical Characteristics | Temperature            |                | 0 ~ 60° C (32 ~ 140° F), depends on CPU speed and cooler solution                          |                       |                    |                       |                     |                        | -40 ~ 85° C (-40 ~ 185° F)   |                              |
|                          | Dimensions             |                | 170 mm x 170 mm (6.69" x 6.69")                                                            |                       |                    |                       |                     |                        |                              |                              |

## Features

- Supports Intel® 7th & 6th Gen Core™ i processor (LGA1151) with Intel H110 chipset
- Two 260-pin SO-DIMM up to 32GB DDR4 2400/2133 MHz SDRAM
- Supports Dual display of DP/HDMI/VGA
- Supports PCIe x4 (Gen 3), 1 F/S miniPCle and 1 H/S miniPCle
- Support 12V DC Input and low profile height
- Supports 4 USB 3.0, 4 USB 2.0, 3 SATAIII, TPM 1.2 / 2.0 (optional)
- Supports WISE-PaaS/RMM and Embedded Software APIs

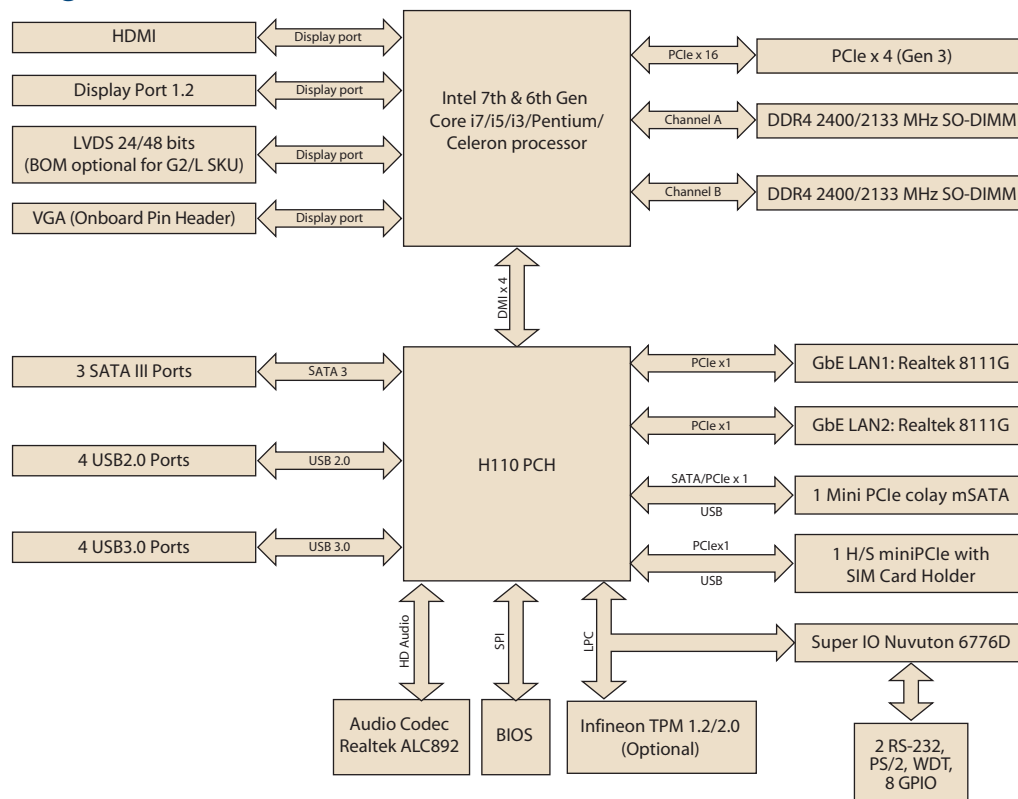
### Software APIs:



### Utilities:



## Block Diagram



## Ordering Information

| P/N              | Chipset | DP | VGA            | LVDS | HDMI         | GbE LAN | COM | SATA | USB 3.0/2.0 | MiniPCle          | TPM | AMP | PCle x4 |
|------------------|---------|----|----------------|------|--------------|---------|-----|------|-------------|-------------------|-----|-----|---------|
| AIMB-285G2-00A1E | H110    | 1  | 1 (pin header) | (1)  | 1 (HDMI 1.4) | 2       | 2   | 3    | 4/4         | 2 (1 F/S & 1 H/S) | (1) | (1) | 1       |
| AIMB-285L-00A1E  | H110    | 1  | 0              | (1)  | 1 (HDMI 1.4) | 1       | 1   | 2    | 4/0         | 1(F/S)            | (1) | 0   | 0       |
| AIMB-285G2-LVA1E | H110    | 1  | 1 (pin header) | 1    | 1 (HDMI 1.4) | 2       | 2   | 3    | 4/4         | 2 (1 F/S & 1 H/S) | (1) | (1) | 1       |

\*( ) BOM options available on MP version.

## Packing List

| Part Number    | Description                      | Quantity |
|----------------|----------------------------------|----------|
| 1700003194     | SATA HDD cable                   | 1        |
| 1700018785     | SATA power cable                 | 1        |
| 1700100250     | Serial port cable (1 port, 25cm) | 2        |
| 19Z0001209T000 | I/O port bracket                 | 1        |
| 2006028510     | Startup manual                   | 1        |

## Optional Chassis

| Part Number     | Description                                                 |
|-----------------|-------------------------------------------------------------|
| AIMB-B2000-00YE | Mini-ITX chassis (Optional external AC-DC 84W/120W Adaptor) |
| EPC-T2000       | Mini-ITX chassis (optional external AC-DC 120W adapter)     |

## Rear I/O



## Optional Accessories

| Part Number     | Description                                                         |
|-----------------|---------------------------------------------------------------------|
| 1700026162-01   | USB 2.0 cable with two ports, 30 cm with bracket                    |
| 1703060191      | KB/MS cable 1*6P-2.0/M-DIN 6P(F)*2, 19cm                            |
| 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 ≤ 35W, 80 (W) x 80 (L) x 32.2 (H) mm |
| 96PSA-A120W12V1 | ADP A/D 100-240V 120W 12V C14 DC Plug 180°                          |
| 1700023082-11   | A cable 2*10P-4.2/1*3P-2.0 15cm                                     |
| 1700025816-01   | VGA cable (M cable 2*5P-2.0/D-SUB 15P(F) 35cm)                      |

## Embedded OS/API

| OS/API     | Part No.   | 968 P/N    | Description                                     |
|------------|------------|------------|-------------------------------------------------|
| windows 10 | 2070014483 | 968QW10LTE | Win10 IoT Enterprise x64 multi-language (SKL-S) |
| WE8.1      | 2070014246 | 968QWE8IP1 | WE8.1 Industry Pro x64 multi-language (SKL-S)   |

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.