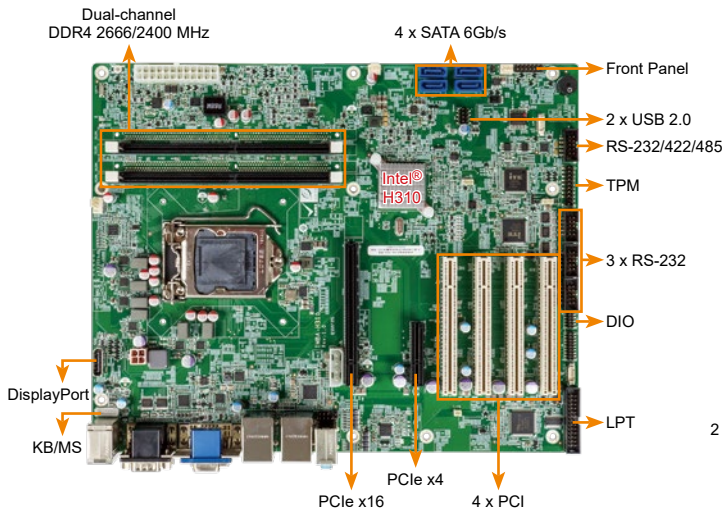
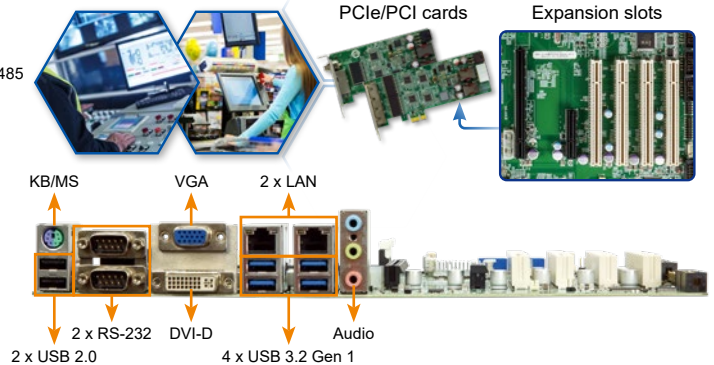


# IMBA-H310

ATX motherboard supports 14nm LGA1151 Intel® H310 8th/9th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, Dual Independent Displays, dual GbE LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



## PCIe and PCI Slots for Multiple Expansion Support



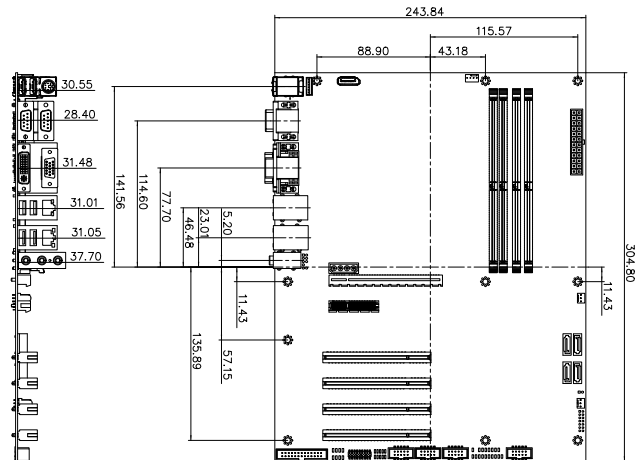
## Specifications

- ◆ CPU  
LGA1151 Intel® H310 8th/9th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor
- ◆ Chipset  
Intel® H310
- ◆ BIOS  
AMI UEFI BIOS
- ◆ Memory  
Two 288-pin 2666/2400 MHz Dual-Channel DDR4 SDRAM Unbuffered DIMMs supported up to 64GB
- ◆ Graphics Engine  
Intel® HD Graphics Gen 9 Engine with 16 Low-power execution units supports DX2015, OpenGL 5.X and OpenCL2.x, ES 2.0
- ◆ Display Output  
Triple independent display  
1 x DVI-D (up to 2560x1600@60Hz)  
1 x VGA (UP to 1920x1200@60Hz)  
1 x Internal 180° DP (up to 4096x2304@60Hz)
- ◆ Ethernet  
LAN1: Intel® I219LM PCIe controller  
LAN2: Intel® I211 AT PCIe controller
- ◆ External I/O Interface  
4 x USB 3.2 Gen 1 (5Gb/s)                   2 x RS-232  
2 x USB 2.0                                       1 x KB/MS
- ◆ Internal I/O Interface  
1 x KB/MS (1x6 pin)                             2 x USB 2.0 (2x4 pin, P=2.54)  
1 x LPT (2x13 pin, P=2.54)                   3 x RS-232 (2x5 pin, P=2.54)  
1 x RS-232/422/485 (2x5 pin, P=2.54)     4 x SATA 6G/s (no RAID)
- ◆ Audio  
Realtek ALC662 HD codec supports 5.1 channel  
3 x Audio Jack (Line-in, Line-out, Mic-in) on rear IO  
1 x Front audio (2x5 pin)
- ◆ Front Panel  
1 x Front Panel (2x7 pin, Power LED, HDD LED, Speaker, Power Button, Reset Button)
- ◆ LAN LED  
2 x LAN LED (1x2 pin)
- ◆ Expansion  
1 x PCIe x16 (Gen3)  
1 x PCIe x4 (Gen2)  
4 x PCI
- ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I<sup>2</sup>C: 1 x I<sup>2</sup>C (1x4 pin)
- ◆ Fan Connector  
1 x CPU fan connector (1x4 pin)  
2 x System fan connector (1x3 pin)
- ◆ Chassis Open: 1 x Chassis intrusion connector (1x2 pin)
- ◆ Power Supply  
ATX/AT power supply  
Support AT/ATX mode  
ErP/EuP Compliant"
- ◆ Watchdog Timer  
Software Programmable support 1~255 sec. System reset
- ◆ Power Consumption  
3.3V@0.39A, 5V@2.99A, 12V@3.08A, 5VSB@0.2A  
(Intel® Core™ i5-8500 up to 3.00 GHz CPU with 20 GB 2400/2133 MHz DDR4 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Storage Temperature: -30°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 244mm x 305mm
- ◆ Weight: GW:1200g / NW:700g
- ◆ CE/FCC compliant

## Features

- ◆ LGA1151 Intel® H310 8th/9th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor
- ◆ Dual-channel DDR4 2666MHz
- ◆ Support dual displays with DVI-D/VGA/DP
- ◆ Support USB 3.2 Gen 1 (5Gb/s) and SATA 6Gb/s

## Dimensions (Unit: mm)



## Packing List

1 x IMBA-H310 single board computer	1 x I/O Shielding
2 x SATA cable	1 x QIG

## Ordering Information

Part No.	Description
IMBA-H310-R10	ATX motherboard supports 14nm LGA1151 Intel® H310 8th/9th Generation Core™ i9/i7/i5/i3, Celeron® and Pentium® processor, DDR4, Dual Independent Displays, dual GbE LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS Art. N° 164346
19800-000075-RS	PS/2 KB/MS cable with bracket, 220mm, P=2.0
19800-003100-100-RS	Dual port USB cable with bracket, 30mm, P=2.54
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32205-000702-100-RS	RS-232 cable, 230mm, P=2.54
CF-1156A-RS-R11	High-performance LGA1155/1156 cooler kit, 1U chassis compatible 73W
CF-1156XC-R10	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156XD-R10	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-1156XE-R10	High-performance LGA1155/1156 cooler kit, 95W
TPM-IN02-R20	20-pin Infineon TPM 2.0 module, software management tool, firmware v5.5