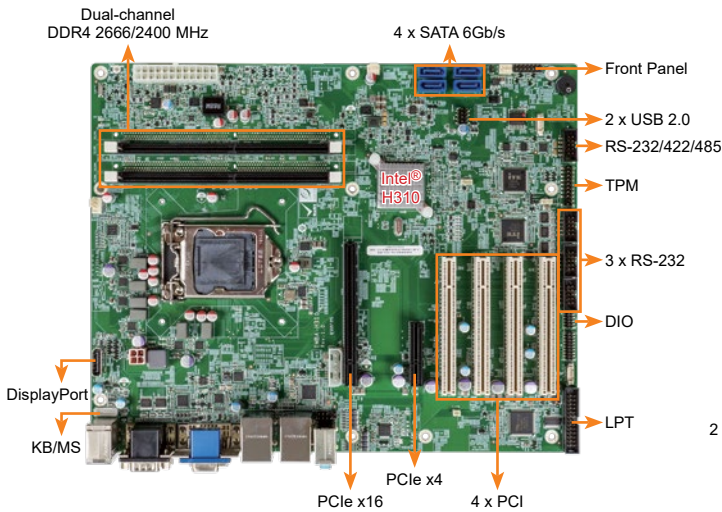


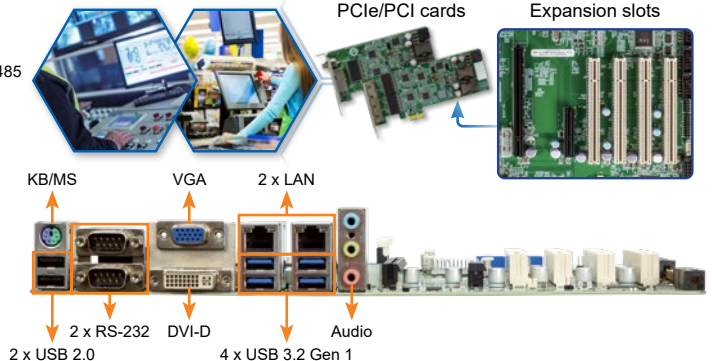
# IMBA-H310

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

**New**



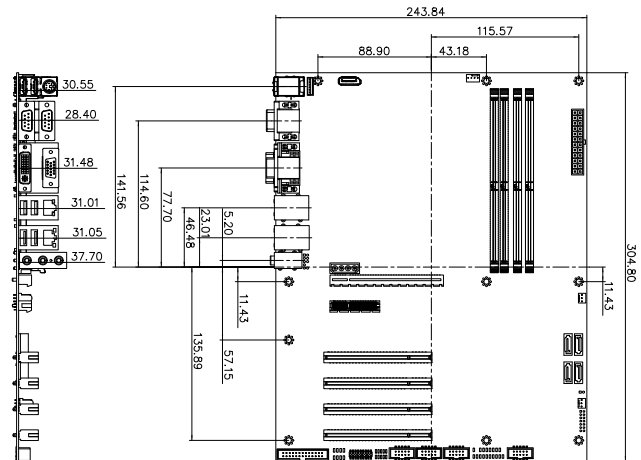
## Specifications

- ◆ 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 ALC888S HD Audio codec supports 7.1-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)
- ◆ I²C: 1 x I²C (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
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
CF1156A-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