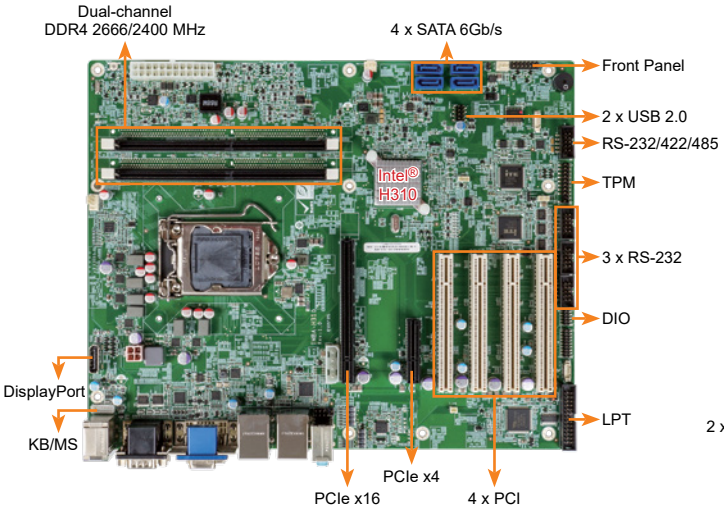
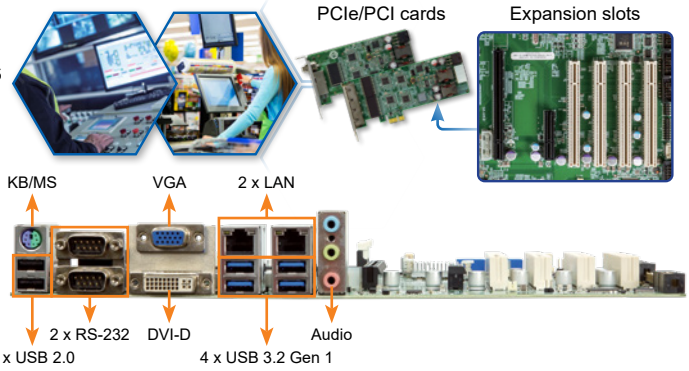
IMBA-H310

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



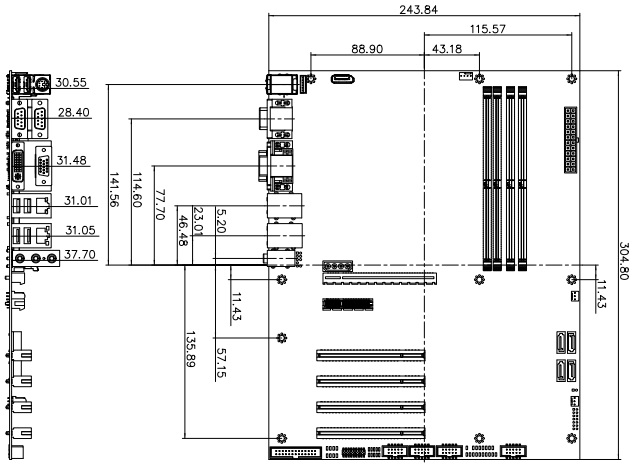
Specifications

- 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
  Dual independent display
  1 x DVI-D (up to 2560x1600@60Hz)
  1 x VGA (UP to 1920x1200@60Hz)
  1 x Internal 180º DP (up to 4096x2304@60Hz)
- Ethernet
  LAN1: Intel® I219LM PCIe controller
  LAN2: Intel® I210 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 6Gb/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
32205-000702-200-RS	RS-232 cable, 230mm, P=2.54
CF-115XA-R10	High-performance LGA1155/1156 cooler kit, 1U chassis compatible 73W
CF-1156C-R20	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-R30	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-115XE-R10	High-performance LGA1155/1156 cooler kit, 95W
TPM-IN02-R20	20-pin Infineon TPM 2.0 module, software management tool, firmware v5.5