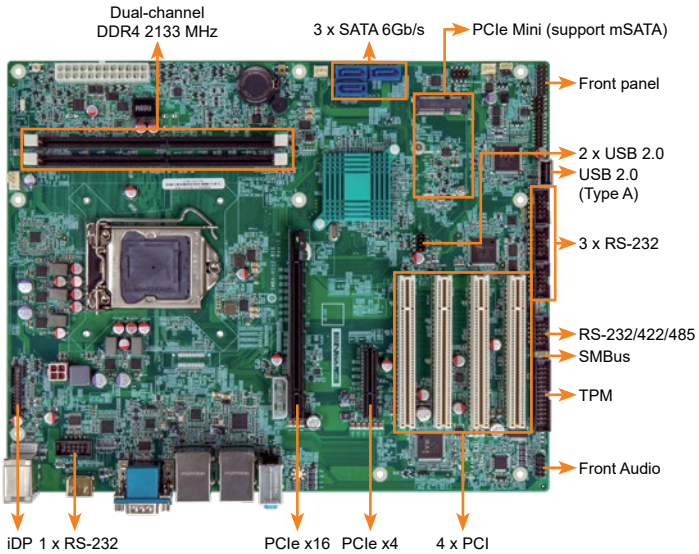
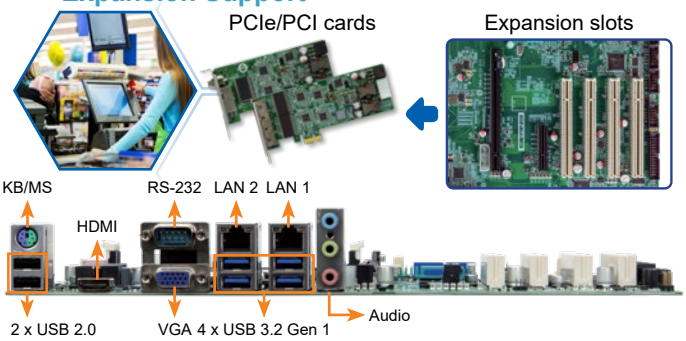
IMBA-H112

ATX Motherboard supports 14nm LGA1151 6th/7th Generation Intel® Core i7/i5/i3, Celeron® and Pentium® processor, DDR4, Dual Independent Displays VGA and HDMI, Dual®Intel GbE LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS



PCIe and PCI Slots for Multiple Expansion Support

New



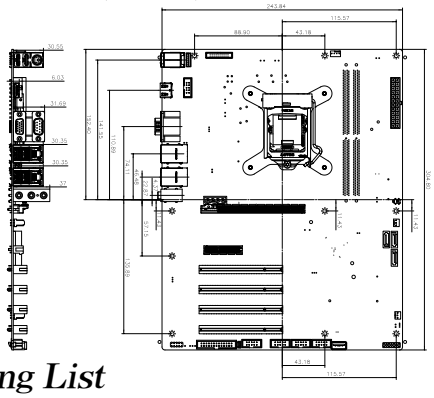
Features

- LGA 1151 Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- Dual-channel DDR4 2133MHz
- Support dual displays with VGA/HDMI/iDP
- Support USB 3.2 Gen 1 (5Gb/s) and SATA 6Gb/s

Specifications

- CPU
  LGA 1151 socket supports Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor
- System Chipset
  Intel® H110
- Memory
  Two 288-pin 2133 MHz dual-channel DDR4 SDRAM unbuffered DIMMs support up to 64 GB
- BIOS
  AMI UEFI BIOS
- Graphic Engine
  Intel® HD Graphics Gen 9 Engines with Low power 16 execution unit, supports DX2015, OpenGL 5.X and OpenCL2.x, ES 2.0
- Display Output
  Dual independent display
  1 x VGA (up to 1920 x 1080@60Hz)
  1 x HDMI 1.4 (up to 4096x2160@24Hz)
  1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz)
- Ethernet
  LAN1: Intel® I219V PHY
  LAN2: Intel® I211 PCIe controller
- External I/O Interface
  4 x USB 3.2
  2 x USB 2.0
  1 x RS-232
- Internal I/O Interface
  1 x KB/MS (1x6 pin)
  1 x LPT (2x13 pin, P=2.54)
  1 x USB 2.0 (type A)
  2 x USB 2.0 (2x4 pin, P=2.54)
  1 x RS-232/422/485 (2x5 pin, P=2.54)
  3 x SATA 6Gb/s (support Hot plug)
  4 x RS-232 (2x5 pin, P=2.54)
- SMBus: 1 x SMBus (1x4 pin)
- I²C: 1 x I²C (1x4 pin)
- Audio
  Realtek ALC662 HD Audio Codec support 5.1 Channel (2 Audio Jack colay 3 Jack) (Line-out, Mic)
- Front Audio
  2 x 5-pin pin header
- Front Panel
  1 x Front Panel (2 x 7 pin, Power LED, HDD LED, Speaker, Power Button, Reset Button)
- LAN LED
  2 x LAN LED (1x2 pin)
- Expansion
  1 x Full-size PCIe Mini card slot (support mSATA)
  1 x PCIe x16 slot (Gen3)
  1 x PCIe x4
  4 x PCI slot
- Watchdog Timer
  Software Programmable support 1~255 sec. system reset
- Fan Connector
  1 x CPU smart fan (1x4 pin)
  1 x System smart fan (1x4 pin)
- Power Supply: ATX/AT Power Supply
- Power Consumption
  3.3V@1.53A, 5V@2.95A, 12V@8.38A, 5VSB@3.2A (4.0 GHz Intel® Core™ i7-6700K CPU with two 8 GB 2133 MHz DDR4 memory)
- Operating Temperature: -20°C~60°C
- Storage Temperature: -20°C~70°C
- Operating Humidity: 5% ~ 95%, non-condensing
- Weight: 1200g / NW: 700g
- CE/FCC compliant

Dimensions *(Unit: mm)*



Packing List

1 x IMBA-H112 single board computer	2 x SATA cable
1 x I/O shielding	1 x QIG

Ordering Information

Part No.	Description
IMBA-H112-R10	ATX Motherboard supports 14nm LGA1151 6th/7th Generation Intel® Core™ i7/i5/i3, Celeron® and Pentium® processor, DDR4, Dual Independent Displays VGA and HDMI, Dual Intel® GbE LAN, USB 3.2, SATA 6Gb/s, HD Audio and RoHS
IMBA-H112-ECO-R10	ATX Motherboard supports 14nm LGA1151 6th/7th Generation Intel® Core™ i7/i5/i3, Celeron® and Pentium® processor, DDR4, Dual Independent Displays VGA and HDMI, Dual Intel® GbE LAN, USB 3.2, SATA 6Gb/s, HD Audio, ECO packing and RoHS
19800-000049-RS	LPT flat cable, 240mm, P=2.54
19800-000075-RS	PS/2 KB/MS cable with bracket, 220mm, P=2.0
19800-020100-100-RS	RS-232 cable, 230mm, P=2.54
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32801-000703-500-RS	SATA cable, 2, 500mm, 26AWG, 30V, SATA 7P female 180°+LOCK, one pcs pkg W/ label, 32000-062800-RS substitute, Wins Precision, RoHS
CF-115XC-R10	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-115XD-R10	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
CF-115XE-R10	High performance LGA1155/LGA1156 cooler kit, 95W
DP-DP-R10	DisplayPort to DisplayPort converter board (for IEI iDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI iDP connector)
TPM-IN02-R20	20-pin Infineon TPM 2.0 module, software management tool, firmware v5.5