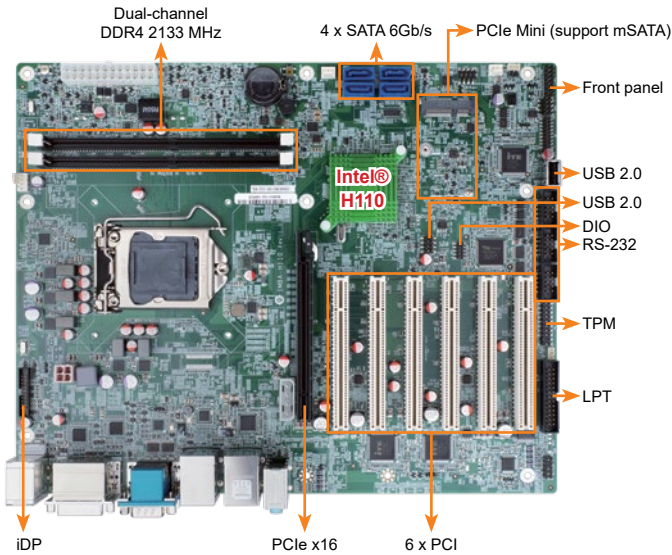
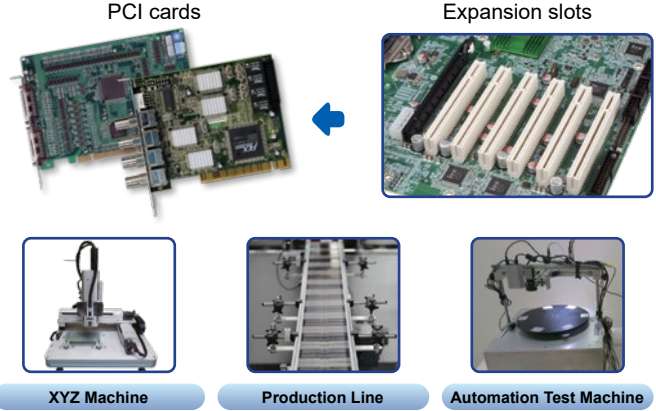


# IMBA-H110

ATX motherboard supports 14nm LGA1151 6th Generation Intel® Core™ i7/i5/i3, Celeron® and Pentium® processor, DDR4, dual independent displays DVI-I/HDMI/iDP, dual Intel® GbE LAN, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, HD Audio and RoHS

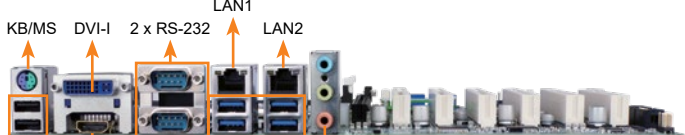


## Multiple PCI Expansion Support



## Specifications

- ◆ CPU  
LGA 1151 socket supports Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor
- ◆ Chipset  
Intel® H110
- ◆ Memory  
Two 288-pin 2133 MHz dual-channel DDR4 SDRAM unbuffered DIMMs support up to 64 GB
- ◆ BIOS  
UEFI BIOS
- ◆ 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-I (up to 1920x1200@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® I219LM PCIe controller  
LAN2: Intel® I211 PCIe controller
- ◆ External I/O Interface  
4 x USB 3.2 Gen 1 (5Gb/s)  
2 x USB 2.0  
2 x RS-232
- ◆ Internal I/O Interface  
1 x KB/MS (1x6 pin) 2 x RS-232 (2x5 pin, P=2.54)  
1 x LPT (2x13 pin, P=2.54) 2 x USB 2.0 (2x4 pin, P=2.54)  
1 x RS-232/422/485 (2x5 pin, P=2.54) 4 x SATA 6Gb/s  
1 x USB 2.0 (180° Type-A)
- ◆ SMBus  
1 x SMBus (1x4 pin)
- ◆ I<sup>2</sup>C  
1 x I<sup>2</sup>C (1x4 pin)
- ◆ TPM  
1 x TPM (2x10 pin)
- ◆ Audio  
Realtek ALC662 HD codec supports 5.1-channel  
3 x Audio jacks (line-out, line-in, 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 Full-size PCIe Mini card slot (support mSATA)  
1 x PCIe x16 slot (Gen3)  
6 x PCI slot
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ Fan Connector  
1 x CPU smart fan (1x4 pin) 2 x System fan (1x3 pin)
- ◆ Power Supply: ATX/AT power supply
- ◆ Power Consumption  
3.3V@1.53A, 5V@2.95A, 12V@8.38A, 5VSB@3.2A  
(Intel® Core™ i7 6700K 4.0GHz CPU with 16GB (two 8GB) 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

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

## Packing List

1 x IMBA-H110 single board computer	2 x SATA cable
1 x I/O shielding	1 x QIG

## Ordering Information

Part No.	Description
IMBA-H110-R10	ATX motherboard supports 14nm LGA1151 6th Generation Intel® Core™ i7/i5/i3, Celeron® and Pentium® processor, DDR4, dual independent displays DVI-I/HDMI/iDP, dual Intel® GbE LAN, SATA 6Gb/s, USB 3.2 Gen 1 (5Gb/s), HD Audio and RoHS
IMBA-H110-ECO-R10	ATX Motherboard supports LGA1151 6th Generation Intel® Core i7/i5/i3, Celeron® Pentium® processor,DDR4,Dual Independent Displays DVI-I/HDMI/iDP, Dual Intel GbE LAN, USB 3.2, SATA 6Gb/s,HD Audio,ECO Packing, RoHS (10 pcs/pack)
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
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