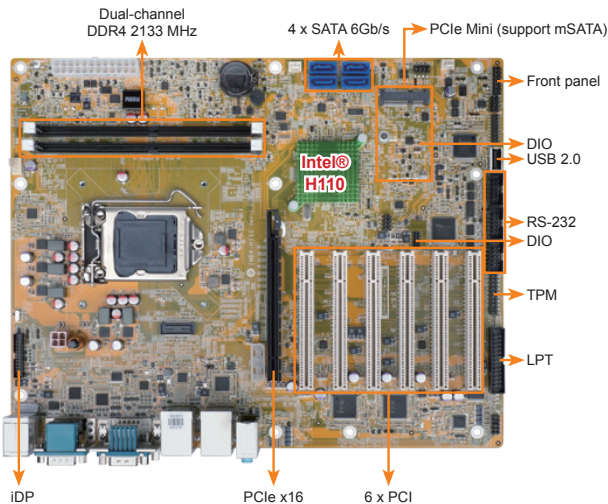


# IMBA-H110

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 3.0, SATA 6Gb/s, HD Audio and RoHS

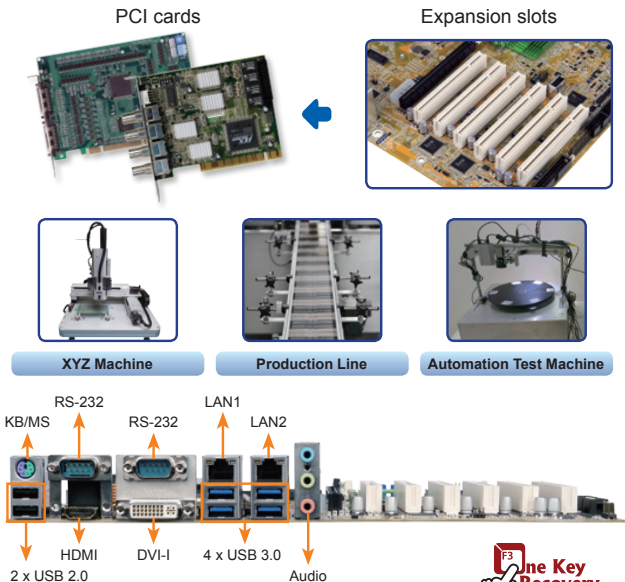


## Specifications

- ◆ CPU  
LGA1151 socket supports 6th generation Intel® Core™ i7/i5/i3, Celeron® and Pentium® 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
- ◆ 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 2560x1200@60Hz)  
1 x HDMI 1.4 (up to 4096x2160@24Hz)  
1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 4096x2304@60Hz)
- ◆ Ethernet  
LAN1: Intel® I219V PHY  
LAN2: Intel® I211 PCIe controller
- ◆ External I/O Interface  
4 x USB 3.0  
2 x USB 2.0  
2 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)  
2 x RS-232 (2x5 pin, P=2.54) 4 x SATA 6Gb/s (support hot plug)  
2 x RS-232/422/485 (2x5 pin, P=2.54, colay with COM5,6)
- ◆ SMBus  
1 x SMBus (1x4 pin)
- ◆ iPC  
1 x iPC (1x4 pin)
- ◆ TPM  
1 x TPM connector (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)  
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  
(Intel® Core™ i7 6700K 4.0GHz CPU with 16GB (two 8GB) 2133 MHz DDR4 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 244mm x 305mm
- ◆ Weight: GW:1200g, NW: 700g

## Multiple PCI Expansion Support

**Preliminary**



## Features

- LGA1151 6th generation Intel® Core™ i7/i5/i3, Celeron® and Pentium® processor
- Dual-channel DDR4 2133 MHz
- Support dual displays with DVI-I/HDMI/DP/iDP
- Support USB 3.0 and SATA 6Gb/s
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Packing List

|                                     |                         |
|-------------------------------------|-------------------------|
| 1 x IMBA-H110 single board computer | 1 x One Key Recovery CD |
| 1 x I/O shielding                   | 1 x QIG                 |
| 2 x SATA cable                      | 1 x Utility CD          |

## 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 3.0, HD Audio and RoHS |
| 19800-000049-RS     | LPT cable, 25-pin (2x13) female, P=2.54  |
| 19800-000051-RS     | RS-232 cable, 230mm (P=2.54)   |
| 19800-000075-RS     | PS/2 KB/MS Y-cable with bracket, 220mm   |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P   |
| CF-1156A-RS-R11     | High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W  |
| CF-1156C-RS         | LGA1155/1156 kit, 1U chassis compatible, 45W   |
| CF-1156D-RS         | LGA1155/1156 kit, 1U chassis compatible, 65W   |
| CF-1156E-R11        | 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-IN01-R11        | 20-pin Infineon TPM module, software management tool, firmware v3.17   |

1 Industrial Computing Solutions

2 Video Capture Solutions

3 Industrial Computer Chassis

4 Open Frame Monitor

5 Power Supply Peripherals

6 All-in-One System