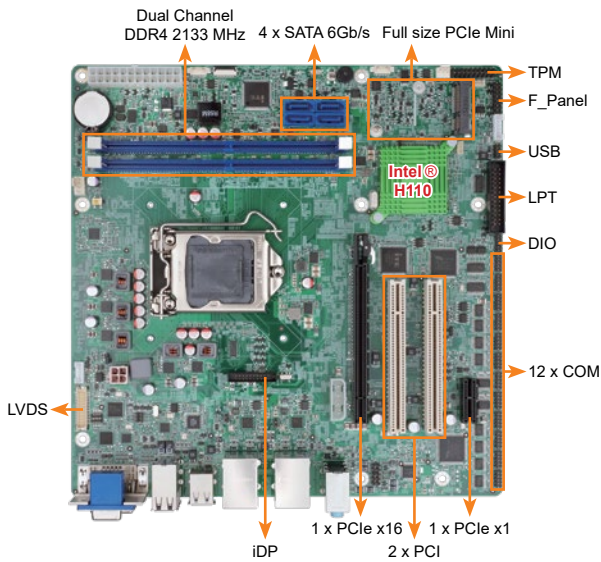


# IMB-H110

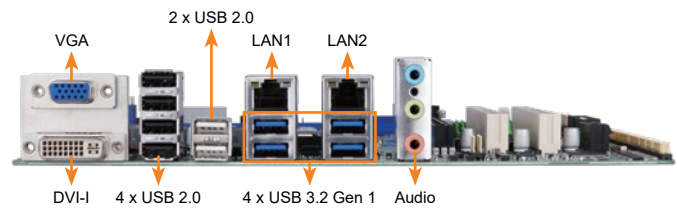
microATX Motherboard supports 14nm LGA1151 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor, DDR4, Dual Independent Displays VGA/ DVI-I/LVDS, Dual GbE LAN, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, HD Audio and RoHS



## Specifications

- ◆ CPU  
LGA 1151 socket supports Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor
- ◆ Chipset  
Intel® skylake H110
- ◆ Memory  
Two 288-pin 2133MHz Dual-Channel DDR4 SDRAM Unbuffered DIMM supported up to 64GB
- ◆ BIOS  
UEFI BIOS
- ◆ Graphics 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 1920x1200@60Hz)  
1 x DVI-I (up to 1920x1200@ 60Hz)  
1 x 18/24-bit dual-channel LVDS (up to 1920x1200@60Hz)  
1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60Hz)
- ◆ Ethernet  
LAN1: RTL 8111GN controller  
LAN2: RTL 8111GN controller
- ◆ External I/O Interface  
4 x USB 3.2 Gen 1 (5Gb/s)  
6 x USB 2.0
- ◆ Internal I/O Interface  
1 x KB/MS (1x6 pin)                      2 x RS-232/422/485 (2x5 pin, P=-2.0)  
1 x LPT (2x13 pin, P=2.54)              2 x USB 2.0 (2x4 pin, P=2.0)  
4 x SATA 6Gb/s                              10 x RS-232 (2x5 pin, P=2.0)
- ◆ SMBus  
1 x SMBus (1x4 pin)
- ◆ TPM  
1 x TPM (2x10 pin)
- ◆ Audio  
Realtek ALC662 HD Audio 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)
- ◆ I<sup>2</sup>C  
1 x I<sup>2</sup>C (1x4 pin)
- ◆ Expansion  
1 x PCIe x16 slot (Gen3)                      1 x Full/Half-size PCIe Mini card slot  
1 x PCIe x1 slot (Gen2)                      2 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 fan (1x3 pin)
- ◆ Power Supply: ATX/AT Power Supply
- ◆ Power Consumption  
3.3V@ 0.93A, 5V@2.99A, 12V@6.88A, 5VSB@0.02A (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% ~ 9%, non-condensing
- ◆ Weight: GW: 1200g / NW: 700g
- ◆ CE/FCC compliant

## Multiple Expansion Support



## Features

- LGA 1151 Intel® 6th/7th generation Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- Dual-channel DDR4 2133MHz support up to 64GB
- Support Dual displays via VGA/DVI-I/LVDS
- USB 3.2 Gen 1 (5Gb/s) and SATA 6Gb/s supported
- 12 COM & 12 USB

## Packing List

1 x IMB-H110 motherboard	2 x SATA cable
1 x I/O shielding	1 x QIG

## Ordering Information

Part No.	Description
IMB-H110-R10	microATX motherboard supports 14nm LGA1151 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported, DDR4, Dual independent displays VGA/DVI-I/LVDS, Dual GbE LAN, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, HD Audio and RoHS
IMB-H110-ECO-R10	microATX Motherboard supports 14nm LGA1151 6th Generation Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor per Intel® H110, DDR4, VGA/DVI-I/LVDS, Dual GbE LAN, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, HD Audio, ECO Packing and 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
19800-000200-100-RS	RS-232 cable with bracket, Dual 10-pin to dual DB-9, 300mm, P=2.0
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
CF-115XA-R10	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
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