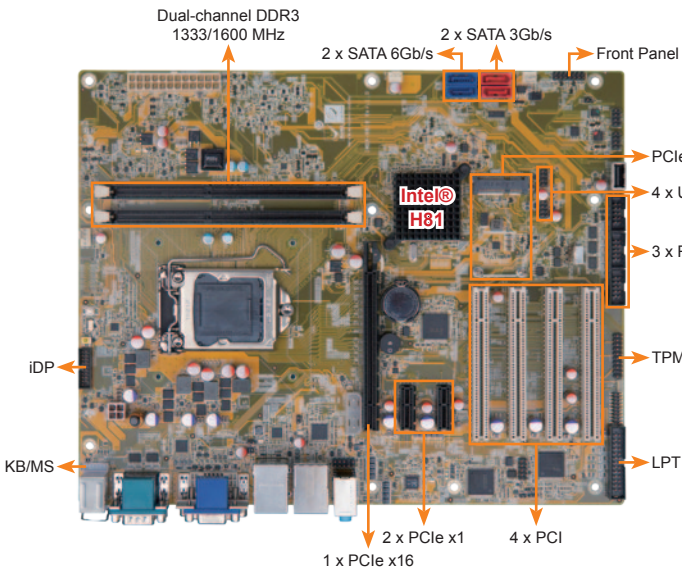


# IMBA-H810

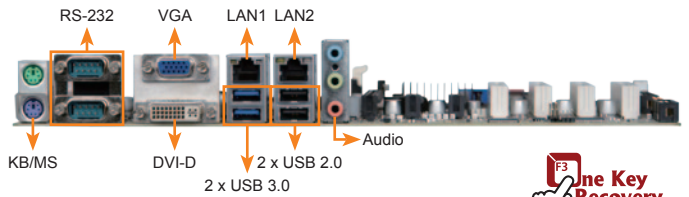
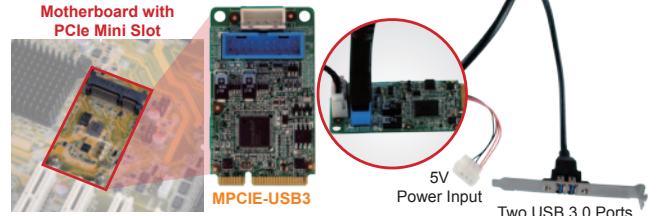
ATX motherboard supports 22nm LGA 1150 4th generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU with Intel® H81, DDR3, VGA/DVI-D/iDP, Dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio and RoHS



## PCIe Mini Add-on Value

### IEI USB 3.0 Expanded Solution

The MPCIE-USB3 board can be installed to add two additional SuperSpeed USB 3.0 ports for the motherboard via the PCIe Mini slot.



## Specifications

- ◆ CPU  
LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® processor supported
- ◆ Chipset  
Intel® H81
- ◆ Memory  
Two 240-pin 1333/1600 MHz Dual-Channel DDR3 SDRAM Unbuffered DIMM supported (system max. 16GB)
- ◆ BIOS  
UEFI
- ◆ Graphics Engine  
Intel® HD Graphics Gen 7.5 supports DX11.1 and OpenCL 1.2, OpenGL 3.2 Full MPEG2, VC1, AVC Decode
- ◆ Display Output  
Dual independent display  
VGA (up to 1920x1200 @ 60 Hz)  
DVI-D (up to 2560x1600 @ 60 Hz)  
iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160 @ 60 Hz)
- ◆ Ethernet  
LAN1: Intel® I217-LM with Intel® AMT9.0 support  
LAN2: Intel® I211-AT PCIe Controller
- ◆ External I/O Interface  
1 x PS/2  
2 x RS-232  
2 x USB 2.0  
2 x USB 3.0
- ◆ Internal I/O Interface  
1 x IR (1x5 pin)  
1 x KB/MS (1x6 pin)  
1 x LPT (2x13 pin)  
2 x SATA 3Gb/s (SATA3, SATA4) (Red)  
2 x SATA 6Gb/s (SATA1, SATA2) (H81 supports AHCI, no RAID) (Blue)
- ◆ Audio  
Support 5.1 channel HD Audio by ALC662 (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)
- ◆ TPM  
1 x TPM (2x10 pin)
- ◆ SMBus  
1 x SMBus (1x4 pin)
- ◆ I<sup>2</sup>C  
1 x I<sup>2</sup>C (1x4 pin)
- ◆ Expansion  
1 x PCIe x16  
1 x PCIe Mini  
1 x mSATA (share with SATA4)  
2 x PCIe x1  
4 x PCI
- ◆ Watchdog Timer  
Software Programmable support 1~255 sec. System reset
- ◆ Digital I/O  
8-bit digital I/O (2x5 pin)
- ◆ Fan Connector  
1 x CPU smart fan (1x 4 pin)  
1 x System smart fan (1x 3 pin)
- ◆ Chassis Open: 1 x Header (1x2 pin)
- ◆ Power Supply: ATX power supply, ATX/AT mode support
- ◆ Power Consumption  
3.3V@0.83A, 5V@2.2A, 12V@3.88A, 5VSB@0.3A  
(Intel® Core™ i7-4770K 3.90GHz CPU with 8GB (two 4 GB) 1333MHz DDR3 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Storage Temperature: -30°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 244 mm x 305 mm
- ◆ Weight: GW: 1200g, NW: 700g



## Features

- 4th generation LGA1150 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- Dual-channel DDR3 1333/1600 MHz support up to 16GB
- Intel® HD Graphics technology integrates high-performance graphics and media processing
- USB 3.0, and SATA supported
- TPM V1.2 hardware security function supported by TPM module
- IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Packing List

1 x IMBA-H810 single board computer	
1 x I/O shielding	
2 x SATA cable	1 x QIG
1 x One Key Recovery CD	1 x Utility CD

## Ordering Information

Part No.	Description
IMBA-H810-R10	ATX motherboard supports 22nm LGA 1150 4th generation Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU with Intel® H81, DDR3, VGA/DVI-D/iDP, Dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio and RoHS
19800-000049-RS	LPT flat cable, 280mm
19800-000051-RS	RS-232 cable, 230mm, P=2.54
19800-000075-RS	PS/2 KB/MS Y-cable with bracket, 220mm
19800-010500-100-RS	USB 3.0 cable with bracket, 457mm
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32205-001203-100-RS	RS-232 cable, 40-pin to four DB-9, 400mm, P=2.54
32205-003800-100-RS	RS-422/485 cable, 200mm, P=2.0
DP-LVDS-R10	DisplayPort to 24-bit dual-channel LVDS converter board (for IEI iDP connector)
DP-HDMI-R10	DisplayPort to HDMI converter board (for IEI iDP connector)
DP-DVI-R10	DisplayPort to DVI-D converter board (for IEI iDP connector)
DP-VGA-R10	DisplayPort to VGA converter board (for IEI iDP connector)
DP-DP-R10	DisplayPort to DisplayPort converter board (for IEI iDP connector)
CF-1156A-RS-R11	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156E-R11	High performance LGA1155/LGA1156 cooler kit, 95W
TPM-IN01-R11	20-pin infineon TPM module, software management tool, firmware V3.17