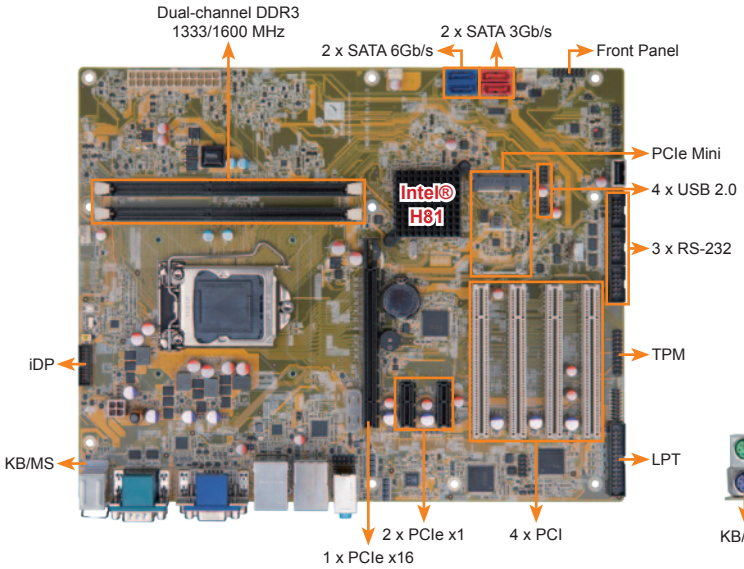
# IMBA-H810

**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**

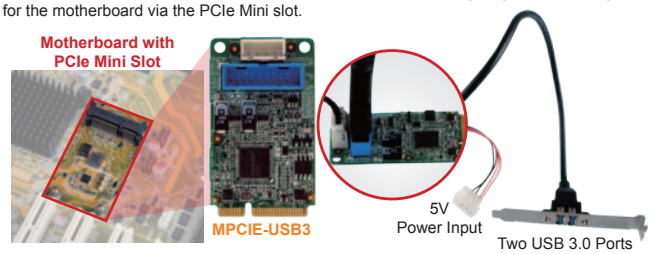


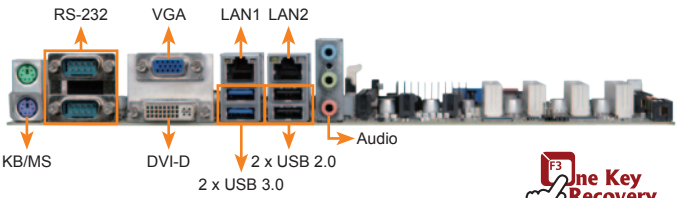

## PCIe Mini Add-on Value

New

### 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.




One Key Recovery

DDR3 1600 | USB 3.0 | SATA 6Gb/s | PCIe Mini Expansion | mSATA | iDP

## 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® I218-V 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)
  1 x RS-422/485 (1x4 pin, P=2.0)
  3 x RS-232 (2x5 pin, P=2.54)
  1 x USB 2.0 (180 degree type A)
  4 x USB 2.0 (2x4 pin, P=2.54)
- 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)
- I²C
  1 x I²C (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
  AT/ATX
- 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
- Operating Humidity: 5% ~ 95%, non-condensing
- Dimensions: 244 mm x 305 mm
- Weight: GW: 1200g, NW: 700g

## Features

1. 4th generation LGA1150 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
2. Dual-channel DDR3 1333/1600 MHz support up to 16GB
3. Intel® HD Graphics technology integrates high-performance graphics and media processing
4. USB 3.0, and SATA supported
5. TPM V1.2 hardware security function supported by TPM module
6. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Packing List

| | |
|---|---|
| 1 x IMBA-H810-R10 single board computer | |
| 1 x I/O shielding (P/N: 45014-0008C0-00-RS) | |
| 2 x SATA cable (P/N: 32000-062800-RS) | 1 x QIG |
| 1 x One Key Recovery CD | 1 x Utility CD |

## Ordering Information

| Part No. | Description |
|---|---|
| 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 |
| 19800-000049-RS | LPT cable |
| 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, 457mm with bracket |
| 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 |
| 32205-003800-100-RS | RS-422/485 cable, 200mm |
| 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 |