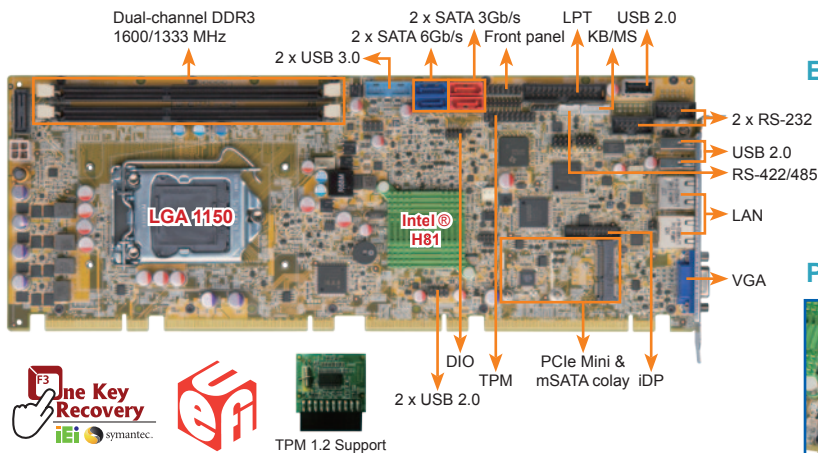


# PCIE-H810

Full-size PICMG 1.3 CPU card supports LGA 1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® with Intel® H81, DDR3, VGA, iDP, Dual PCIe GbE, SATA 6Gb/s, mSATA, USB 3.0, RS-232, HD Audio and RoHS



**New**

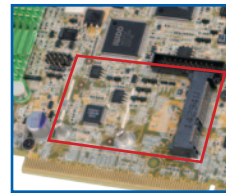


## Enhanced component protection

Prevent the damage of bottom components



## PCIe Mini & mSATA coloy



The PCIe Mini interface provides PCIe x1, USB and mSATA signal for full-size or half-size PCIe Mini devices, such as SSD, mSATA and wireless LAN cards.



TPM 1.2 Support



## Specifications

- ◆ CPU
  - 4th generation LGA 1150 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- ◆ PCH
  - Intel® H81
- ◆ Memory
  - Two 240-pin 1600/1333 MHz dual-channel unbuffered DDR3 & DDR3L SDRAM DIMMs support up to 16 GB
- ◆ BIOS
  - UEFI
- ◆ Graphics Engine
  - Intel® HD Graphics Gen 7.5 supports DX11.1, OpenCL 1.2 and OpenGL 3.2 Full MPEG2, VC1, AVC Decode
- ◆ Display Output
  - Dual independent display
  - VGA (up to 1920x1200@60 Hz)
  - iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60 Hz)
- ◆ Ethernet
  - Dual Realtek RTL8111E PCIe GbE controllers supported
- ◆ External I/O Interface
  - 1 x VGA
  - 2 x RJ-45
  - 2 x USB 2.0
- ◆ Internal I/O Interface
  - 1 x IR (1x5 pin)
  - 1 x KB/MS (1x6 pin)
  - 1 x LPT (2x13 pin)
  - 1 x RS-422/485 (1x4 pin)
  - 2 x RS-232 (2x5 pin, P=2.54)
  - 2 x SATA 6Gb/s, 2 x SATA 3Gb/s (H81 supports AHCI, no RAID)
- ◆ Audio
  - Support 7.1-channel HD Audio by IEI AC-KIT-892HD kit
- ◆ 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)
- ◆ SMBus
  - 1 x SMBus (1x4 pin)
- ◆ I<sup>2</sup>C
  - 1 x I<sup>2</sup>C (1x4 pin)
- ◆ Expansion
  - 1 x PCIe Mini slot (PCIe Mini & mSATA coloy)
  - One PCIe x16 & four PCIe x1 signal via golden finger
  - PCI signal by ITE IT 8892 (PCIe to PCI bridge)
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O: 1 x 8-bit digital I/O (2x5 pin)
- ◆ Fan Connector
  - 1 x CPU smart fan (1x4 pin)
  - 1 x System smart fan (1x3 pin)
- ◆ Power Supply
  - 5V/12V, AT/ATX support
- ◆ Power Consumption
  - 5V@3.41A, 12V@0.35A, Vcore\_12V@7.52A, 3.3V@1.41A, 5VSB@0.12A (Intel® Core™ i7-4770K 3.90 GHz CPU with 8 GB (two 4 GB) 1333 MHz DDR3 memory)
- ◆ Operating Temperature: -20°C ~ 60°C
- ◆ Storage Temperature: -30°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 338 mm x 126 mm
- ◆ Weight: 1000g (GW) / 260g (NW)

## Features

- PICMG 1.3 full-size solution
- 4th generation LGA 1150 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- Two 1600/1333 MHz DDR3 SDRAM DIMMs support up to 16 GB
- Dual Realtek PCIe GbE supported
- TPM v1.2 hardware security function supported by TPM module
- IEI One Key Recovery solution allows you to create raid OS backup and recovery
- Stiffener bars
- IEI jumper-less function

## Packing List

1 x PCIE-H810 single board computer
2 x SATA cable
1 x One Key Recover CD
1 x QIG (Quick Installation Guide)
1 x Utility CD

## Ordering Information

Part No.	Description
PCIE-H810-R10	Full-size PICMG 1.3 CPU Card supports LGA 1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® CPU with Intel® H81, DDR3, VGA, iDP, dual PCIe GbE, SATA 6Gb/s, mSATA, USB 3.0, RS-232, HD Audio and RoHS
19800-000051-RS	Dual RS-232 cable, 230mm, P=2.54
19800-000075-RS	PS/2 KB/MS Y-cable with bracket, 220mm
19800-003100-300-RS	USB 2.0 cable, 300mm, P=2.54
19800-010500-200-RS	USB 3.0 cable with bracket, 457mm
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32200-015100-RS	LPT flat cable, 280mm
32205-003800-300-RS	RS-422/485 cable, 200mm, P=2.0
AC-KIT-892HD-R10	7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams
CF-1150SB-R11	Special cooler kit for LGA 1150, high-performance compatible, 65W
CF-1150SC-R20	Special cooler kit for LGA 1150, 1U chassis compatible, 65W
CF-1150SE-R10	Special cooler kit for LGA 1150, high-performance compatible, 95W
CF-1150SF-R10	Special cooler kit for LGA 1150, high-performance compatible, 54W
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 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