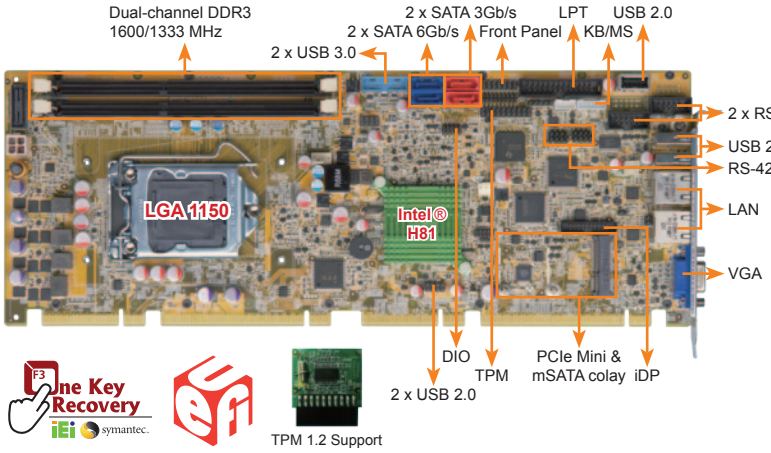
PCIE-H810

Full-size PICMG 1.3 CPU card supports LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® per Intel® H81, DDR3, VGA, iDP, Dual PCIe GbE, SATA 6Gb/s, mSATA, USB 3.0, RS-232, HD Audio and RoHS

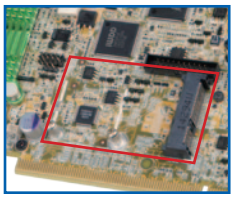


TPM 1.2 Support

Enhanced component protection

Prevent the damage of bottom components

PCIe Mini & mSATA colay



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.

◀ mSATA

▲ Half-size wireless LAN card

Specifications

- CPU
  4th generation LGA1150 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- PCH
  Intel® H81
- Memory
  Two 240-pin 1600/1333MHz dual-channel DDR3 & DDR3L SDRAM unbuffered DIMMs support up to 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)
  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
  2 x RJ-45
  2 x USB 2.0
  1 x VGA
- 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)
  1 x USB 2.0 (180 degree type A)
  4 x USB 2.0 (2x4 pin, P=2.54)
  4 x USB 2.0 (signal to backplane)
  2 x USB 3.0 (2x10 pin)
  2 x SATA 6Gb/s, 1 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)
- TPM
  1 x TPM (2x10 pin)
- SMBus
  1 x SMBus (1x4 pin)
- I²C
  1 x I²C (1x4 pin)
- Expansion
  1 x PCIe connector (PCIe Mini & mSATA colay)
  One PCIe x16 & four PCIe x1 signal via golden finger
  PCI signal and ISA signal via golden finger
  PCI signal by ITE IT 8892 (PCIe to PCI bridge)
- Watchdog Timer
  Software programmable support 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 8GB (two 4GB) 1333MHz DDR3 memory)
- Operating Temperature
  -20°C ~ 60°C
- Operating Humidity
  5% ~ 95%, non-condensing
- Dimensions: 185 mm x 122 mm
- Weight: GW: 1000g / NW: 260g

Features

1. PICMG 1.3 full-size solution
2. 4th generation LGA1150 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
3. Two DDR3 1600/1333 MHz DIMM SDRAM supported up to 16GB
4. Dual Realtek PCIe GbE supported
5. TPM V1.2 hardware security function supported by TPM module
6. IEI One Key Recovery solution allows you to create raipd OS backup and recovery
7. Stiffener bars
8. IEI jumper-less function

Packing List

1 x PCIE-H810 single board computer
2 x SATA cable
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 LGA1150 Intel® Core™ i7/i5/i3, Pentium® and Celeron® per 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
32200-074800-RS	RS-422/485 cable, 200mm
19800-003100-100-RS	USB 2.0 cable, 300mm, P=2.54
19800-010500-200-RS	USB 3.0 cable 457mm with bracket
19800-000075-RS	KB/MS cable with bracket
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32200-015100-RS	LPT flat cable 28CM
CF-1150SE-R10	Special cooler kit for LGA1150, high-performance compatible, 95W
CF-1150SC-R10	Special cooler kit for LGA1150, 1U chassis compatible, 65W
CF-1150SB-R11	Special cooler kit for LGA1150, high-performance compatible, 65W
CF-1150SF-R10	Special cooler kit for LGA1150, high-performance compatible, 54W
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)
DP-DP-R10	DisplayPort to DisplayPort converter board (for IEI iDP connector)
AC-KIT-892HD-R10	7.1 channel HD Audio kit with Realtek ALC892 support dual audio streams
TPM-IN01-R11	20-pin Infineon TPM module, software management tool, firmware V3.17