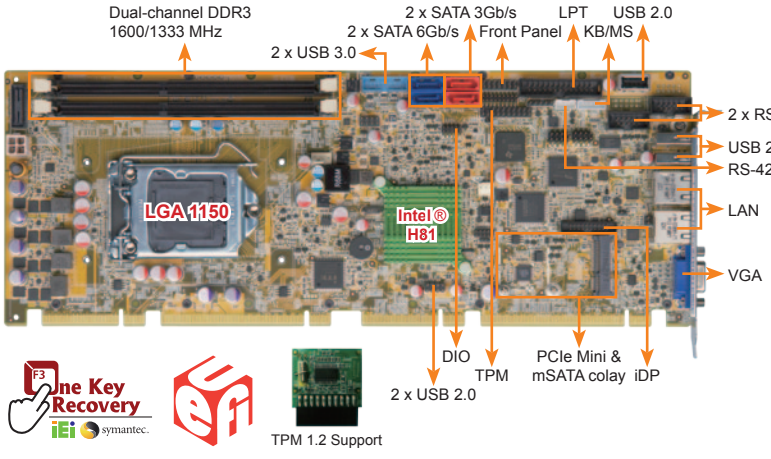
PCIE-H810

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



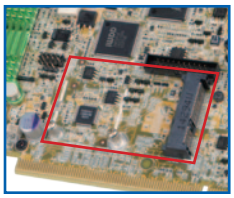
TPM 1.2 Support

New

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
  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)
  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, 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)
- 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 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
- Storage Temperature: -30°C ~ 70°C
- Operating Humidity: 10% ~ 95%, non-condensing
- Dimensions: 338 mm x 126 mm
- Weight: GW: 1000g / NW: 260g

Features

- PICMG 1.3 full-size solution
- 4th generation LGA1150 Intel® Core™ i7/i5/i3, Pentium® or Celeron® processor supported
- Two DDR3 1600/1333 MHz DIMM SDRAM supported up to 16GB
- Dual Realtek PCIe GbE supported
- TPM V1.2 hardware security function supported by TPM module
- IEI One Key Recovery solution allows you to create raipd 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 QIG (Quick Installation Guide)
1 x Utility CD
1 x One Key Recover 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
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 support dual audio streams
CF-1150SB-R11	Special cooler kit for LGA1150, high-performance compatible, 65W
CF-1150SC-R20	Special cooler kit for LGA1150, 1U chassis compatible, 65W
CF-1150SE-R10	Special cooler kit for LGA1150, high-performance compatible, 95W
CF-1150SF-R10	Special cooler kit for LGA1150, 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