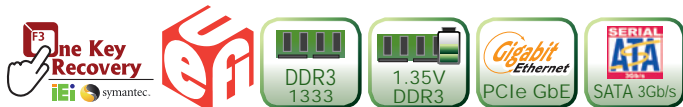
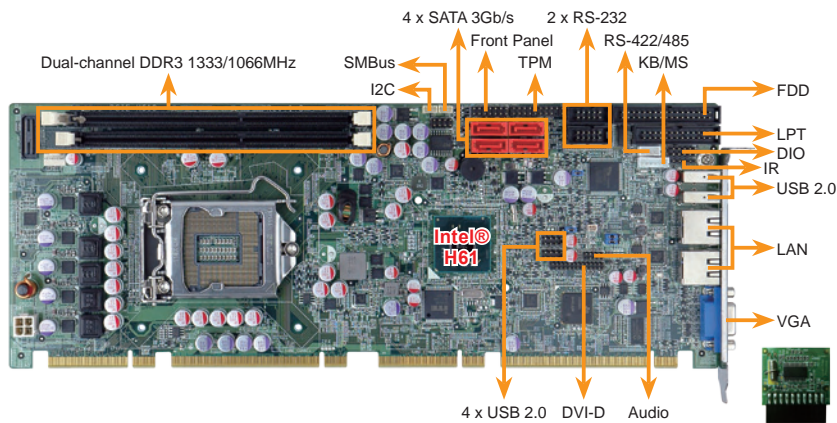


# PCIE-H610

Full-size PICMG 1.3 CPU card Supports 32nm LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU with Intel® H61, DDR3, VGA, Dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, HD Audio and RoHS



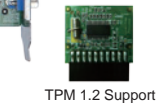
## Specifications

- ◆ CPU  
LGA1155 socket supports Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor
- ◆ PCH  
Intel® H61
- ◆ Memory  
Two 240-pin 1333/1066MHz dual-channel DDR3 & DDR3L (1.35V) DIMMs supported (system max. 16GB)
- ◆ BIOS  
UEFI BIOS
- ◆ Graphics Engine  
Intel® HD Graphics Gen 6 supports for DX10.1 and OpenGL 3.0  
Full MPEG2, VC1, AVC Decode
- ◆ Display Output  
1 x VGA  
1 x DVI-D (via header to IO-KIT-001-R20 DVI-D/USB module) (optional)
- ◆ Ethernet  
Dual Realtek RTL8111E PCIe GbE controllers (LAN1 with ASF 2.0 supported)
- ◆ Super I/O  
Fintek F81866
- ◆ PCIe Switch  
TI XIO3130
- ◆ PCIe-PCI Bridge  
ITE IT8892E
- ◆ I/O Interface
  - 2 x RS-232                   1 x RS-422/485
  - 4 x SATA 3Gb/s           1 x LPT
  - 1 x FDD                    1 x 6-pin wafer for KB/MS
  - 6 x USB 2.0 (2 by Rear IO, 4 by on-board pin header)
  - 4 x USB 2.0 (4 by backplane pin header via golden finger)
- ◆ Front Panel  
1 x Front panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- ◆ Audio  
Supports by IEI AC-KIT-888HD audio kit
- ◆ TPM  
2 x 10-pin headers
- ◆ SMBus  
1 x 4-pin wafer
- ◆ I2C  
1 x 4-pin wafer
- ◆ Infrared Interface  
1 x 5-pin header
- ◆ Expansion  
PCIe signal and PCI signal via golden finger
- ◆ Watchdog Timer  
Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O  
8-bit programmable I/O
- ◆ Fan Connector  
1 x 4-pin smart Fan Connector
- ◆ Power Supply  
5V/12V, AT/ATX support
- ◆ Power Consumption  
5V@4.41A, 12V@0.21A, Vcore\_12V@7.72A, 3.3V@1.71A, 5VSB@0.16A (3.4GHz Intel® Core™ i7-2600K with two 2GB 1333MHz DDR3 memory)
- ◆ Operating Temperature  
-10°C ~ 60°C
- ◆ Operating Humidity  
5% ~95%, non-condensing
- ◆ Dimensions  
338 mm x 126 mm
- ◆ Weight  
GW: 1200g/NW: 420g

## 2nd Gen Intel® Core Processors (TDP=35W) Suggest List

**New**

CPU No.	Clock speed	Core	Smart cache	TDP
i5-2390T	2.7GHz	2	3M	35W
i3-2120T	2.6GHz	2	3M	35W
i3-2100T	2.5GHz	2	3M	35W
G630T	2.3GHz	2	3M	35W
G620T	2.2GHz	2	3M	35W
G530T	2.0GHz	2	2M	35W
G440	1.6GHz	1	1M	35W



TPM 1.2 Support



IO-KIT-001

DVI cable included in DVI model



CF-1156C-RS

1U chassis compatible



The 2nd gen Intel® processors provide advanced technology and intelligent performance.

## Features

1. Full-size PICMG 1.3 graphics grade solution
2. LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor supported
3. Dual-channel 1333/1066MHz DDR3/DDR3L SDRAM supported up to 16GB
4. Intel® HD Graphics technology integrates high-performance graphics and media processing
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 PCIE-H610 single board computer	
1 x Dual RS-232 cable (P/N: 19800-000051-RS)	
1 x USB cable (P/N: 19800-003100-200-RS)	1 x Mini jumper pack
4 x SATA cable (P/N: 32801-000703-200-RS)	1 x Utility CD
1 x One Key Recovery CD	1 x QIG (Quick Installation Guide)

## Ordering Information

Part No.	Description
PCIE-H610-R10	Full-size PICMG 1.3 CPU card supports 32nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® H61, DDR3, VGA, Dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, HD Audio and RoHS
PCIE-H610-DVI-R10	Full-size PICMG 1.3 CPU card supports 32nm LGA1155 Intel® Core™ i7/i5/i3 CPU with Intel® H61, DDR3, VGA/DVI-D, Dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, HD Audio and RoHS
32205-003800-100-RS	RS-422/485 cable, 200mm
19800-000075-RS	KB/MS cable with bracket
SAIDE-KIT01-R10	SATA to IDE/CF converter board
32102-000100-200-RS	SATA power cable
32229-000100-100-RS	FDD flat cable
32200-015100-RS	LPT cable
AC-KIT-888HD-R10	7.1 channel HD audio kit with Realtek ALC888 supports dual audio streams
CPU-DT-i5-2500T	Intel® Core™ i5-2500T processor, LGA1155, quad core 2.3GHz, 6M cache, 45W, compatible with CF-1156C-RS CPU cooler
CPU-DT-i5-2390T	Intel® Core™ i5-2390T processor, LGA1155, dual core 2.7GHz, 3M cache, 35W, AMT, compatible with CF-1156C-RS CPU cooler
CPU-DT-i3-2100T	Intel® Core™ i3-2100T processor, LGA1155, dual core 2.5GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-P-G620T	Intel® Pentium® G620T processor, LGA1155, dual core 2.2GHz, 3M cache, 35W, compatible with CF-1156C-RS CPU cooler
CPU-DT-C-G440	Intel® Celeron® G440 processor, LGA1155, single core 1.6GHz, 1M cache, 35W, compatible with CF-1156C-RS CPU cooler
CF-1156A-RS-R10	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156B-RS-R10	High performance LGA1155/LGA1156 cooler kit, 95W
CF-1156C-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W
CF-1156D-RS	LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W
TPM-IN01-R11	20-pin Infi neon TPM module, software management tool, firmware V3.17

1

Industrial Computing Solutions

2

Video Capture Solutions

3

Embedded Computing Solutions

4

ORing Network Communication

5

Power Supply/Peripherals

6

Panel Solutions Introduction