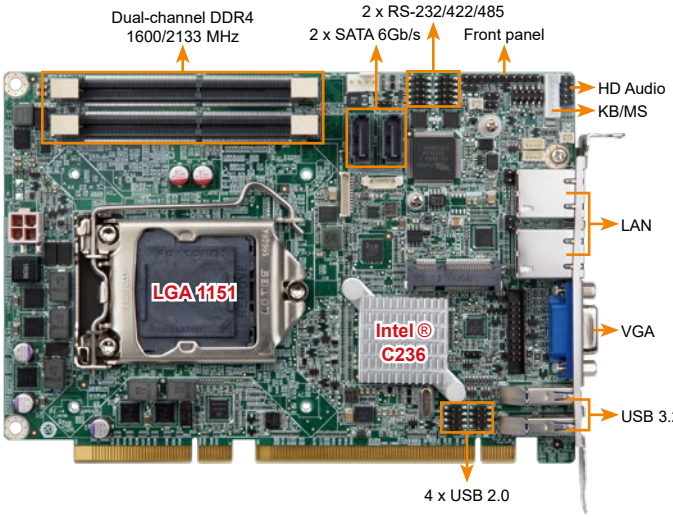
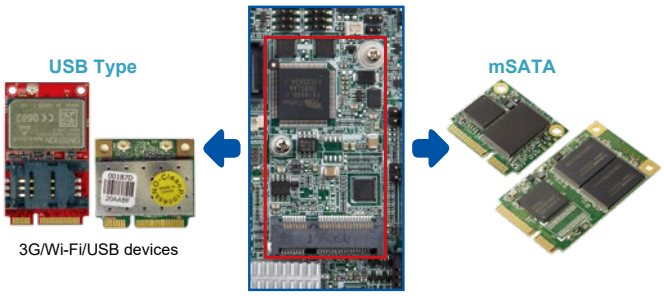
# HPCIE-C236

**Half-size PICMG 1.3 CPU Card supports LGA 1151 Intel® Xeon® E3, Core™ i3/Pentium®/ Celeron® CPU with Intel® C236, ECC & non-ECC DDR4 SO-DIMM, VGA, iDP, Dual Intel® PCIe GbE, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, mSATA, HD Audio, Intel® AMT and RoHS**




**PCIe Mini slot provides mSATA and USB signal for full-size or half-size mSATA SSD and wireless LAN card.**



## Specifications

- CPU
  LGA 1151 socket supports Intel® Xeon® E3 v5/v6, 6th/7th generation Core™ i3, Pentium® or Celeron® processor
- Chipset
  Intel® C236
- Memory
  Two 260-pin 1866/2133 MHz dual-channel DDR4 ECC and non-ECC unbuffered SO-DIMMs support up to 32 GB
- BIOS
  UEFI BIOS
- Graphics Engine
  Intel® HD Graphics Gen 9 supports DX11/12, OpenCL 2.x and OpenGL 4.3/4.4
  Decode/Encode for HEVC, VP8, VP9, VDENC
- Display Output
  1 x VGA (up to 1920x1200@60 Hz)
  1 x iDP interface for HDMI, LVDS, VGA, DVI, DP (up to 3840x2160@60 Hz)
- Ethernet
  LAN1: Intel® I219LM Clarkville-V with Intel® AMT 11.0 support
  LAN2: Intel® I210 PCIe controller
- External I/O Interface
  2 x USB 3.2 Gen 1
- Internal I/O Interface
  1 x KB/MS (1x6 pin)
  1 x mSATA (SATA & USB signal)
  2 x RS-232/422/485 (2x5 pin, P=2.0)
  2 x SATA 6Gb/s (RAID 0, 1 supported)
  4 x USB 2.0 (2x4 pin, P=2.0)
- Front Panel
  1 x Front panel (1x10 pin, power LED, HDD LED, speaker, power button, reset button)
- LAN LED
  2 x LAN LED (1x2 pin)
- Audio
  Support 7.1-channel HD Audio by IEI AC-KIT-892HD kit
- SMBus
  1 x SMBus (1x4 pin)
- I²C
  1 x I²C (1x4 pin)
- Expansion
  16-lane PCIe signal from CPU via golden finger
  (supports x16, or x8 + x8, or x4 + x4 + x8)
  4-lane PCIe signal from Q170 via golden finger
  1 x Full/Half-size PCIe Mini card slot (supports mSATA)
- Watchdog Timer
  Software programmable supports 1~255 sec. system reset
- Digital I/O
  8-bit digital I/O (2x5 pin)
- Fan Connector
  1 x CPU smart fan (1x4 pin)
- Power Supply
  5V/12V, AT/ATX support
- Power Consumption
  5V@0.13A, 12V@7.89A, 3.3V@0.10A, 5VSB@0.20A
  (Intel® Xeon® E3-1275 v5 3.60 GHz with two 16 GB 2133 MHz DDR4 memory)
- Operating Temperature
  -20°C ~ 60°C
- Operating Humidity
  5% ~ 95%, non-condensing
- Dimensions
  169 mm x 126 mm
- Weight
  GW: 1000g / NW: 420g
- CE/FCC compliant

## Features

- PICMG 1.3 full-size CPU card
- LGA1151 Intel® 8th Generation Xeon® E3, Core™ i7/i5/i3, Celeron® and Pentium® processor supported
- Dual-channel DDR4 2666MHz
- Support HDMI and DP display
- Intel® PCIe GbE with Intel® AMT 11.0 supported
- Support M.2 M key for storage (PCIe x4)
- Supports RAID 0, 1, 5, 10 function via SATA 6Gb/s

## Packing List

| |
|---|
| 1 x HPCIE-C236 single board computer |
| 1 x SATA cable |
| 1 x QIG |

## Ordering Information

| Part No. | Description |
|---|---|
| HPCIE-C236-R10 | Half-size PICMG 1.3 CPU card supports LGA 1151 Intel® Xeon® E3, Core™ i3/Pentium®/Celeron® CPU with Intel® C236, ECC & non-ECC DDR4 SO-DIMM, VGA, iDP, dual Intel® PCIe GbE, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, mSATA, HD Audio, Intel® AMT and RoHS |
| 19800-000075-RS | PS/2 KB/MS cable with bracket, 220mm, P=2.0 |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P |
| 32205-002700-200-RS | RS-232/422/485 cable, 200mm, P=2.0 |
| AC-KIT-892HD-R10 | 7.1-channel HD Audio kit with Realtek ALC892 supports dual audio streams |
| CF-115XA-R10 | High-performance LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 73W |
| CF-115XC-R10 | LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 45W |
| CF-115XD-R10 | LGA 1155/LGA 1156 cooler kit, 1U chassis compatible, 65W |
| 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) |
| SAIDE-KIT01-R10 | SATA to IDE/CF converter board |