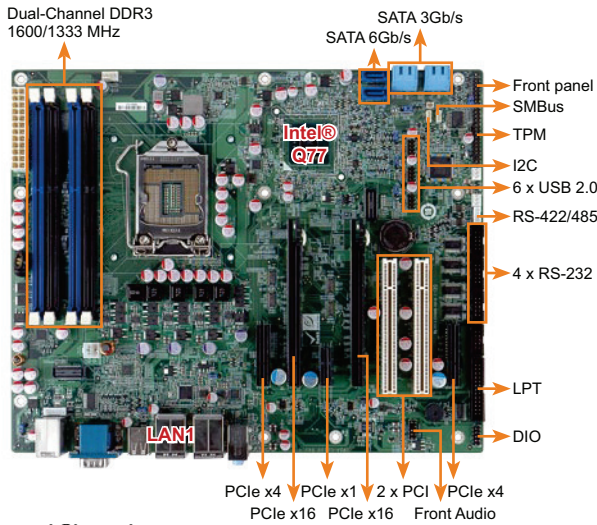


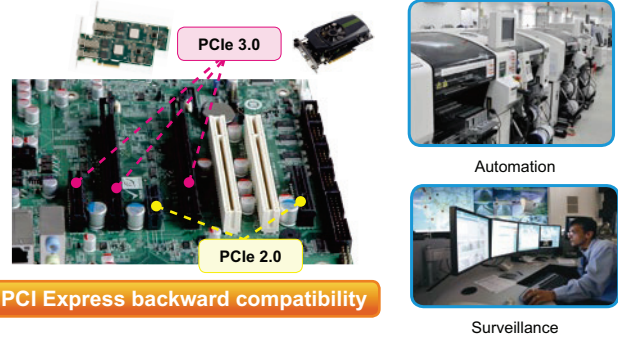
# IMBA-C2160

ATX Motherboard Supports 22nm LGA1155 Intel® Xeon® E3/ Intel® Core™ i3 CPU with Intel® C216, DDR3, VGA, Dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio and RoHS



## Rich PCI Express expansion slots for automation & surveillance application field

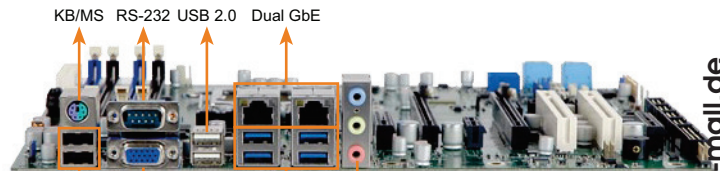
Three PCIe 3.0, two PCIe 2.0 and two PCI slots fulfill multiple add-on card purpose such as high-end Ethernet card, RAID card or high performance graphics card.



PCI Express backward compatibility

## Specifications

- ◆ CPU  
LGA1155 socket supports Xeon® E3 and Intel® Core™ i3 quad/dual core processor
- ◆ System Chipset  
Intel® C216
- ◆ Memory  
Four 240-pin 1600/1333MHz dual-channel DDR3 SDRAM ECC and non-ECC unbuffered DIMMs supported (system max. 32GB)
- ◆ BIOS  
UEFI BIOS
- ◆ Ethernet  
Intel® 82579 PHY with Intel® AMT 8.0 supported  
Intel® 82574L PCIe controller
- ◆ Graphics Engine  
Intel® HD Graphics 2000 / 3000  
Supports DX10.1 and OpenGL 3.0  
Full MPEG-2, VC1 and AVC Decode
- ◆ Display Output  
VGA integrated in the Intel® C216 (up to 2048 x 1536 @75Hz)
- ◆ Super I/O  
Fintek F81866
- ◆ Audio  
Realtek ALC662 HD audio codec (Line-in, Line-out, Mic)
- ◆ I/O interface
  - 5 x RS-232
  - 4 x USB 3.0 (rear I/O)
  - 4 x SATA 3Gb/s
  - 1 x LPT
  - 1 x 6-pin wafer for PS/2 KB/MS
- ◆ Front Panel
  - 1 x Front\_Panel (Power LED, HDD LED, Speaker, Power Button, Reset Button)
- ◆ Front Audio
  - 2 x 5-pin header
- ◆ Front Panel
  - 1 x Front panel connector (power LED, HDD LED, speaker, power button, reset button)
- ◆ TPM
  - 2 x 10-pin header
- ◆ SMBus
  - 1 x 4-pin wafer
- ◆ I2C
  - 1 x 4-pin wafer
- ◆ Expansions
  - 1 x PCIe x16 slot
  - 2 x PCIe x4 slot
  - 2 x PCI slot
- ◆ Watchdog Timer
  - Software programmable supports 1~255 sec. system reset
- ◆ Digital I/O
  - 8-bit Digital I/O (8-bit GPIO is for programming I/O)
- ◆ Fan Connector
  - 1 x 4-pin CPU fan connector
  - 2 x 3-pin system fan connector
- ◆ Power Supply
  - ATX power supply
- ◆ Power Consumption
  - 3.3V@1.55A, 5V@3.43A, Vcore@3.12A, 12V@0.20A, 5VSB@0.18A (Intel® Xeon® 2.2GHz CPU with two 1333MHz 4GB DDR3 memory)
- ◆ Operating Temperature
  - 10°C ~ 60°C
- ◆ Operating Humidity
  - 5% ~ 95%, non-condensing
- ◆ Dimensions
  - 244 mm x 305 mm
- ◆ Weight
  - GW:1200g/NW: 700g



## Features

1. LGA1155 Xeon® E3 and Intel® Core™ i7/i5/i3 processor supported
3. Dual-channel DDR3 1600/1333MHz supports up to 32GB
4. Intel® PCIe GbE with Intel® AMT 8.0 supported
5. Supports PCI-Express generation 3.0 at 8GT/s I/O bandwidth
6. USB 3.0 and SATA 6Gb/s supported
7. High speed interface usage for two PCIe x8/two PCIe x4 add-on cards
8. IEI One Key Recovery solution allows you to create rapid OS backup and recovery

## Packing List

|   |                      |
|---|----------------------|
| 1 x IMBA-C2160 single board computer        |                      |
| 4 x SATA Cable (P/N: 32801-000703-200-RS)   | 1 x Mini jumper pack |
| 1 x I/O shielding (P/N: 45014-0034C0-00-RS) | 1 x Utility CD       |
| 1 x One Key Recovery CD                     | 1 x QIG              |

## Ordering Information

| Part No.            | Description  |
|---------------------|--|
| IMBA-C2160-R10      | ATX motherboard supports 22nm LGA1155 Intel® Xeon® E3/ Intel® Core™ i3 CPU with Intel® C216, DDR3, VGA, Dual Intel® PCIe GbE, USB 3.0, SATA 6Gb/s, HD Audio and RoHS |
| 19800-003100-200-RS | Dual-port USB cable with bracket   |
| 32006-000300-100-RS | Male PS/2 KB/MS Y-cable w/o bracket, 12cm(KB)+14cm(MS)   |
| 32205-003800-100-RS | RS-422/485 cable, 200mm  |
| 19800-000051-RS     | RS-232 cable, 230mm  |
| 32102-000100-200-RS | SATA power cable   |
| 19800-000075-RS     | PS/2 KB/MS Y-cable with bracket, 6-pin header, 220mm   |
| CF-1156A-RS         | High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W  |
| CF-1156B-RS         | High performance LGA1155/LGA1156 cooler kit, 95W   |
| 19800-000049-RS     | LPT cable  |
| TPM-IN01-R11        | 20-pin Infineon TPM module, SW management tool, firmware V3.17   |

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