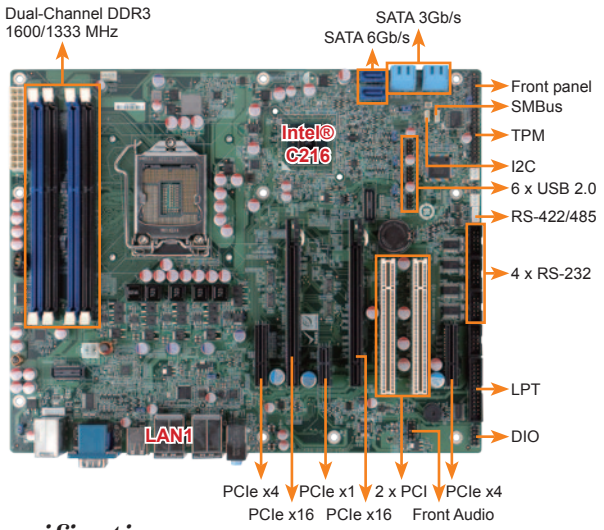
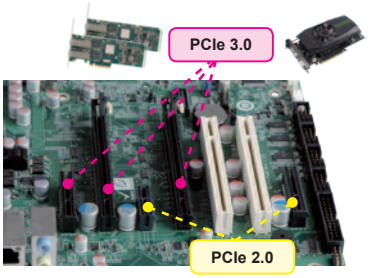
IMBA-C2160

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

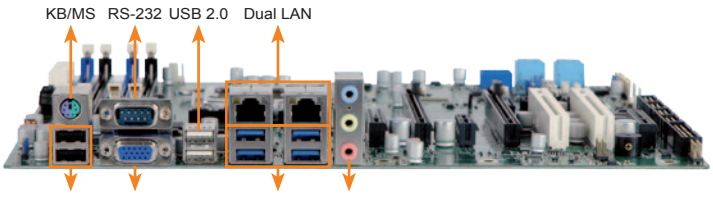
Three PCIe 3.0, two PCIe 2.0 and two PCI slots fulfill multiple add-on card purpose such as high-end Ethernet card, RAID card or high performance graphics card.



PCI Express backward compatibility

Automation

Surveillance



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
  LAN1: Intel® 82579 PHY with Intel® AMT 8.0 supported
  LAN2: 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	1 x RS-422/485
4 x USB 3.0 (rear I/O)	10 x USB 2.0 (4 on rear, 6 by pin header)
4 x SATA 3Gb/s	2 x SATA 6Gb/s (RAID 0/1/5/10 support)
1 x LPT	1 x PS/2 KB/MS

  1 x 6-pin wafer for PS/2 KB/MS
- Front Audio
  2 x 5-pin header
- Front Panel
  1 x Front panel connector (power LED, HDD LED, speaker, power button, reset button)
- TPM
  1 x TPM connector (2x10 pin)
- SMBus
  1 x 4-pin wafer
- I2C
  1 x 4-pin wafer
- Expansions

2 x PCI slot	1 x PCIe x1 slot
2 x PCIe x4 slot	2 x PCIe x16 (share 1 PCIe x 16 signal)

- 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
- Storage Temperature
  -20°C ~ 70°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™ i3 processor supported
2. Dual-channel DDR3 1600/1333MHz supports up to 32GB
3. Intel® PCIe GbE with Intel® AMT 8.0 supported
4. Supports PCI-Express generation 3.0 at 8GT/s I/O bandwidth
5. USB 3.0 and SATA 6Gb/s supported
6. High speed interface usage for two PCIe x8/two PCIe x4 add-on cards
7. 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: 32000-062800-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
19800-003100-300-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)
32205-003800-300-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-R11	High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W
CF-1156E-R11	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