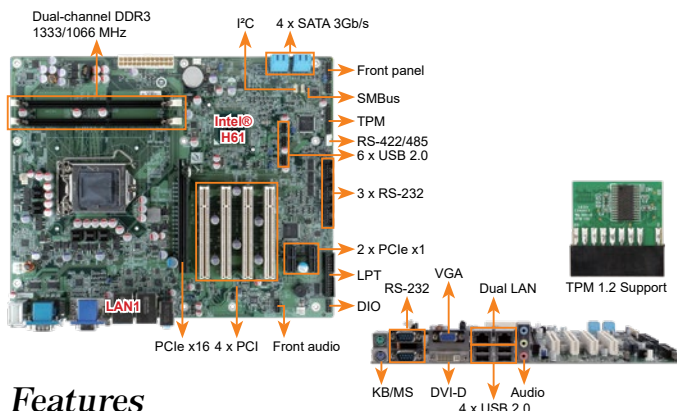


# IMBA-H610

ATX motherboard supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU with Intel® H61, DDR3, VGA/DVI-D, dual Realtek PCIe GbE, SATA 3Gb/s, USB 2.0, HD Audio and RoHS



## Features

- LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor supported
- Up to 32GB 1333 MHz dual-channel DDR3 SDRAM
- Intel® HD Graphics technology integrates high-performance graphics and media processing
- TPM V1.2 hardware security provided by the TPM module

## Specifications

- ◆ CPU  
LGA1155 socket supports Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor
- ◆ Chipset: Intel® H61
- ◆ Memory  
Two 240-pin 1333/1066 MHz dual-channel DDR3 SDRAM unbuffered DIMMs support up to 16 GB
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet  
LAN1: Realtek RTL8111E PCIe GbE controller with ASF 2.0 support  
LAN2: Realtek RTL8111E PCIe GbE controller
- ◆ Graphics Engine  
Intel® HD Graphics 2000/3000 (based on CPU type)  
Supports DX10.1 and OpenGL 3.0  
Full MPEG2, VC1, AVC Decode
- ◆ Display Output  
Dual independent display  
1 x VGA (up to 2048x1536@75Hz)  
1 x DVI-D (up to 1920x1200@60Hz)
- ◆ Audio  
Realtek ALC662 HD codec supports 5.1-channel 3 x Audio jacks (line-out, line-in, mic-in) on rear IO  
1 x Front audio (2x5 pin)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I°C: 1 x I°C (1x4 pin)
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ External I/O Interface  
1 x KB/MS 2 x RS-232 4 x USB 2.0
- ◆ Internal I/O Interface  
1 x LPT(2x13 pin, P=2.54)  
1 x RS-422/485 (1x4 pin, P=2.0)  
4 x RS-232 (2x5 pin, P=2.54)  
4 x SATA 3Gb/s (AHCI supported)  
6 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Front Panel  
1 x Front panel (2x7 pin, power LED, HDD LED, speaker, power button, reset button)
- ◆ Expansion  
1 x PCIe x16 slot 2 x PCIe x1 slot  
4 x PCI slot
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Fan Connector  
1 x CPU smart fan (1x4 pin)  
2 x System fan (1x3 pin)
- ◆ Power Supply: ATX power supply
- ◆ Power Consumption  
3.3V@1.27A, 5V@3.87A, 12V@0.54A, Vcore@7.67A, 5VSb@0.15A (Intel® Core™ i7-2600K 3.40GHz CPU with two 1333 MHz 2 GB 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
- ◆ CE/FCC compliant

## Packing List

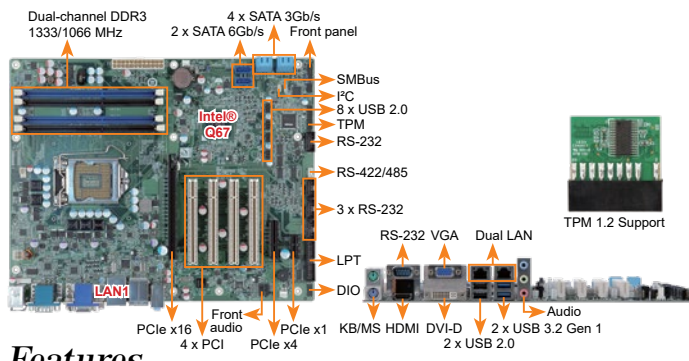
|                                     |                      |
|-------------------------------------|----------------------|
| 1 x IMBA-H610 single board computer |                      |
| 4 x SATA cable                      | 1 x Mini jumper pack |
| 1 x I/O shielding                   | 1 x QIG              |

## Ordering Information

| Part No.            | Description                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMBA-H610-R10       | ATX motherboard supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU with Intel® H61, DDR3, VGA/DVI-D, dual Realtek PCIe GbE, USB 2.0, SATA 3Gb/s, HD Audio and RoHS |
| 19800-000049-RS     | LPT flat cable, 240mm, P=2.54                                                                                                                                                |
| 19800-003100-100-RS | Dual port USB cable with bracket, 300mm, P=2.54                                                                                                                              |
| 19800-020100-100-RS | RS-232 cable with bracket, Dual 10-pin to dual DB-9, 230mm, P=2.54                                                                                                           |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P                                                                                                                                   |
| 32205-003800-300-RS | RS-422/485 cable, 200mm, P=2.0                                                                                                                                               |
| CF-115XA-R10        | High-performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W                                                                                                      |
| CF-115XC-R10        | LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W                                                                                                                       |
| CF-115XD-R10        | LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W                                                                                                                       |
| CF-115XE-R10        | High-performance LGA1155/LGA1156 cooler kit, 95W                                                                                                                             |
| CPU-DT-C-G440       | Intel® Celeron® G440 processor, LGA1155, single core 1.6GHz, 1M cache, 35W, compatible with CF-115XC-R10 CPU cooler                                                          |
| CPU-DT-i3-2120T     | Intel® Core™ i3-2120T processor, LGA1155, dual core 2.6GHz, 3M cache, 35W, compatible with CF-115XC-R10 CPU cooler                                                           |
| CPU-DT-i5-2390T     | Intel® Core™ i5-2390T processor, LGA1155, dual core 2.7GHz, 3M cache, 35W, AMT, compatible with CF-115XC-R10 CPU cooler                                                      |
| CPU-DT-i5-2500T     | Intel® Core™ i5-2500T processor, LGA1155, quad core 2.3GHz, 6M cache, 45W, compatible with CF-115XC-R10 CPU cooler                                                           |
| CPU-DT-P-G630T      | Intel® Pentium® G630T processor, LGA1155, dual core 2.3GHz, 3M cache, 35W, compatible with CF-115XC-R10 CPU cooler                                                           |
| TPM-IN01-R20        | 20-pin Infineon TPM module, software management tool, firmware v3.17                                                                                                         |

# IMBA-Q670-R30

ATX motherboard supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU with Intel® Q67, DDR3, VGA/DVI-D/HDMI, dual Intel® PCIe GbE, SATA 6Gb/s, USB 3.2 Gen 1 (5Gb/s), HD Audio and RoHS



## Features

- LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor supported
- Up to 32 GB 1333 MHz dual-channel DDR3 SDRAM
- Intel® PCIe GbE with Intel® AMT 7.0 support
- USB 3.2 Gen 1 (5Gb/s) and SATA 6Gb/s supported

## Specifications

- ◆ CPU  
LGA1155 socket supports Intel® Core™ i7/i5/i3/Pentium®/Celeron® processor
- ◆ Chipset: Intel® Q67
- ◆ Memory  
Four 240-pin 1333/1066 MHz dual-channel DDR3 SDRAM unbuffered DIMMs support up to 32 GB
- ◆ BIOS: UEFI BIOS
- ◆ Ethernet  
LAN1: Intel® 82583V PCIe controller  
LAN2: Intel® 82579 PHY with Intel® AMT 7.0 supported
- ◆ Graphics Engine  
Support for DX10.1 and OpenGL3.0  
Full MPEG2, VC1, AVC Decode
- ◆ Display Output  
Dual independent display  
1 x VGA (up to 2048x1536@75Hz)  
1 x HDMI (up to 1920x1200@60Hz)  
1 x DVI-D (up to 1920x1200@60Hz)
- ◆ Audio: Realtek ALC662 HD Audio codec  
3 x Audio jacks (line-out, line-in, mic-in) on rear IO  
1 x Front audio (2x5 pin)
- ◆ TPM: 1 x TPM (2x10 pin)
- ◆ SMBus: 1 x SMBus (1x4 pin)
- ◆ I°C: 1 x I°C (1x4 pin)
- ◆ Digital I/O: 8-bit digital I/O (2x5 pin)
- ◆ External I/O Interface  
1 x KB/MS 2 x USB 2.0  
1 x RS-232 2 x USB 3.2 Gen 1 (5Gb/s)
- ◆ Internal I/O Interface  
1 x KB/MS (1x6 pin)  
1 x LPT (2x13 pin, P=2.54)  
1 x RS-422/485 (1x4 pin, P=2.0)  
2 x SATA 6Gb/s (RAID 0/1/5/10 supported)  
4 x RS-232 (2x5 pin, P=2.54)  
4 x SATA 3Gb/s (RAID 0/1/5/10 supported)  
8 x USB 2.0 (2x4 pin, P=2.54)
- ◆ Expansion  
1 x PCIe x16 slot 1 x PCIe x1 slot  
1 x PCIe x4 slot 4 x PCI slots
- ◆ Watchdog Timer: Software programmable supports 1~255 sec. system reset
- ◆ Fan Connector  
1 x CPU smart fan (1x4 pin)  
2 x System fan (1x3 pin)
- ◆ Power Supply: ATX/AT power supply
- ◆ Power Consumption  
3.3V@1.65A, 5V@6.31A, 12V@0.18A, Vcore@7.88A, 5VSb@0.15 (Intel® Core™ i5-2400 3.10GHz CPU with four 4 GB 1333 MHz DDR3 memory)
- ◆ Operating Temperature: -10°C ~ 60°C
- ◆ Storage Temperature: -20°C ~ 70°C
- ◆ Operating Humidity: 5% ~ 95%, non-condensing
- ◆ Dimensions: 244mm x 305mm
- ◆ Weight: GW: 1200g / NW: 700g
- ◆ CE/FCC compliant

## Packing List

|                                     |                      |
|-------------------------------------|----------------------|
| 1 x IMBA-Q670 single board computer |                      |
| 1 x I/O shielding                   | 1 x Mini jumper pack |
| 4 x SATA cable                      | 1 x QIG              |

## Ordering Information

| Part No.            | Description                                                                                                                                                                                    |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IMBA-Q670-R30       | ATX motherboard supports LGA1155 Intel® Core™ i7/i5/i3/Pentium®/Celeron® CPU with Intel® Q67, DDR3, VGA/DVI-D/HDMI, dual Intel® PCIe GbE, USB 3.2 Gen 1 (5Gb/s), SATA 6Gb/s, HD Audio and RoHS |
| 19800-000049-RS     | LPT flat cable, 240mm, P=2.54                                                                                                                                                                  |
| 19800-003100-300-RS | Dual port USB cable with bracket, 300mm, P=2.54                                                                                                                                                |
| 19800-020100-100-RS | RS-232 cable with bracket, Dual 10-pin to dual DB-9, 230mm, P=2.54                                                                                                                             |
| 32102-000100-200-RS | SATA power cable, MOLEX 5264-4P to SATA15P                                                                                                                                                     |
| 32205-003800-300-RS | RS-422/485 cable, 200mm                                                                                                                                                                        |
| CF-115XA-R10        | High-performance LGA1155/LGA1156 cooler kit, 1U chassis compatible, 73W                                                                                                                        |
| CF-115XC-R10        | LGA1155/LGA1156 cooler kit, 1U chassis compatible, 45W                                                                                                                                         |
| CF-115XD-R10        | LGA1155/LGA1156 cooler kit, 1U chassis compatible, 65W                                                                                                                                         |
| CF-115XE-R10        | High-performance LGA1155/LGA1156 cooler kit, 95W                                                                                                                                               |
| CPU-DT-C-G440       | Intel® Celeron® G440 processor, LGA1155, single core 1.6GHz, 1M cache, 35W, compatible with CF-115XC-R10 CPU cooler                                                                            |
| CPU-DT-i3-2120T     | Intel® Core™ i3-2120T processor, LGA1155, dual core 2.6GHz, 3M cache, 35W, compatible with CF-115XC-R10 CPU cooler                                                                             |
| CPU-DT-i5-2390T     | Intel® Core™ i5-2390T processor, LGA1155, dual core 2.7GHz, 3M cache, 35W, AMT, compatible with CF-115XC-R10 CPU cooler                                                                        |
| CPU-DT-i5-2500T     | Intel® Core™ i5-2500T processor, LGA1155, quad core 2.3GHz, 6M cache, 45W, compatible with CF-115XC-R10 CPU cooler                                                                             |
| CPU-DT-P-G630T      | Intel® Pentium® G630T processor, LGA1155, dual core 2.3GHz, 3M cache, 35W, compatible with CF-115XC-R10 CPU cooler                                                                             |
| TPM-IN01-R20        | 20-pin Infineon TPM module, software management tool, firmware v3.17                                                                                                                           |

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