

# IMBA-BTL-Q670

ATX Motherboard supports LGA1700 Intel® 12th/13th/14th Generation Core™ i9/i7/i5/i3, Pentium® and Celeron® processor.

## Quick Installation Guide

Version 1.00

June, 2026

### Features

- Supports 12th/13th/14th Gen Intel® Core™ CPUs (up to 125W TDP) and four DDR5 slots for up to 192GB RAM.
- Supports three independent displays via DP 1.4a, HDMI, and an IDPM slot for eDP/LVDS/VGA modules.
- Features twin 2.5GbE LAN ports and four SATA 6Gb/s ports with RAID 0/1/5/10 support.
- Includes PCIe Gen4 slots (x16 and x4 open-end), legacy PCI, and two M.2 M key slots for NVMe SSDs.
- Equipped with a dedicated IPMI slot for remote management and TPM/PTT for hardware security.

### Packing List

- 1 x IMBA-BTL-Q670 single board computer
- 1 x I/O Shielding
- 2 x SATA cable
- 1 x QIG (Quick Installation Guide)

## Jumpers & Connectors

| J_CMOS1: Clear CMOS jumper |                                    |
|----------------------------|------------------------------------|
| STATUS                     | DESCRIPTION                        |
| NC                         | Keep CMOS setup (normal operation) |
| Press button               | Clear CMOS setup                   |

| J_ATX_AT1: AT/ATX Power Mode Setting |                          |
|--------------------------------------|--------------------------|
| PIN NO.                              | DESCRIPTION              |
| 1-2(Right)                           | ATX Power Mode (default) |
| 2-3(Left)                            | AT Power Mode            |

| F_PANEL1: External Switches and Indicators panel |             |         |             |
|--------------------------------------------------|-------------|---------|-------------|
| PIN NO.                                          | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1                                                | +5V         | 2       | PC_BEEP_P   |
| 3                                                | NC          | 4       | NC          |
| 5                                                | GND         | 6       | NC          |
| 7                                                | PWR_BTN_N   | 8       | PC_BEEP_N   |
| 9                                                | GND         | 10      | NC          |
| 11                                               | HD_LED_P    | 12      | PM_SYSRST_N |
| 13                                               | HD_LED_N    | 14      | GND         |

| USB2_CN1/2: Internal USB Connector |             |         |             |
|------------------------------------|-------------|---------|-------------|
| PIN NO.                            | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1                                  | VCC         | 2       | GND         |
| 3                                  | USB_DN      | 4       | USB_DP      |
| 5                                  | USB_DP      | 6       | USB_DN      |
| 7                                  | GND         | 8       | VCC         |

| USB3_2: Internal USB 3.2 Gen1 Type-A Connector |             |         |             |
|------------------------------------------------|-------------|---------|-------------|
| PIN NO.                                        | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1                                              | +5V         | 11      | USB2_4_P    |
| 2                                              | USB3_RX3_N  | 12      | USB2_4_N    |
| 3                                              | USB3_RX3_P  | 13      | GND         |
| 4                                              | GND         | 14      | USB3_TX4_P  |
| 5                                              | USB3_TX3_N  | 15      | USB3_TX4_N  |
| 6                                              | USB3_TX3_P  | 16      | GND         |
| 7                                              | GND         | 17      | USB3_RX4_P  |
| 8                                              | USB2_3_N    | 18      | USB3_RX4_N  |
| 9                                              | USB2_3_P    | 19      | +5V         |
| 10                                             | N/C         |         |             |

| <b>DIO1: Digital Input / Output Connector</b> |             |         |             |
|-----------------------------------------------|-------------|---------|-------------|
| PIN NO.                                       | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1                                             | GND         | 2       | +5V         |
| 3                                             | DOUT5       | 4       | DOUT4       |
| 5                                             | DOUT3       | 6       | DOUT2       |
| 7                                             | DOUT1       | 8       | DOUT0       |
| 9                                             | DIN5        | 10      | DIN4        |
| 11                                            | DIN3        | 12      | DIN2        |
| 13                                            | DIN1        | 14      | DIN0        |

| <b>FRONT_PANEL1: Audio Source Connector</b> |             |         |             |
|---------------------------------------------|-------------|---------|-------------|
| PIN NO.                                     | DESCRIPTION | PIN NO. | DESCRIPTION |
| 1                                           | LMIC2-L     | 2       | GND_AUDIO   |
| 3                                           | LMIC2-R     | 4       | PRESENCE#   |
| 5                                           | LLINE2-R    | 6       | MIC2-JD     |
| 7                                           | FRONT-IO    | 8       | NC          |
| 9                                           | LLINE2-L    | 10      | LINE2-JD    |

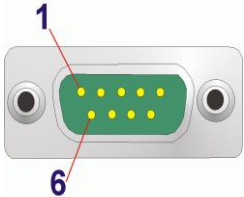
| <b>SYS_FAN1 &amp; SYS_FAN2: System Fan Connector</b> |             |
|------------------------------------------------------|-------------|
| PIN NO.                                              | DESCRIPTION |
| 1                                                    | GND         |
| 2                                                    | +12V        |
| 3                                                    | FANIN       |
| 4                                                    | PWM(+5V)    |

| <b>CPU_FAN1: CPU Fan Connector</b> |             |
|------------------------------------|-------------|
| PIN NO.                            | DESCRIPTION |
| 1                                  | GND         |
| 2                                  | +12V        |
| 3                                  | FANIN       |
| 4                                  | PWM(+5V)    |

| <b>J_SMB1: SMBus Connector</b> |               |
|--------------------------------|---------------|
| PIN NO.                        | DESCRIPTION   |
| 1                              | GND           |
| 2                              | SMB_DATA_MAIN |
| 3                              | SMB_CLK_MAIN  |
| 4                              | +5V           |

| <b>CHASSIS1: Chassis Status Connector</b> |             |
|-------------------------------------------|-------------|
| PIN NO.                                   | DESCRIPTION |
| 1                                         | CASEOPEN_N  |
| 2                                         | GND         |

| <b>J_I2C1: I2C Connector</b> |             |
|------------------------------|-------------|
| PIN NO.                      | DESCRIPTION |
| 1                            | GND         |
| 2                            | SMDAT0_EC   |
| 3                            | SMCLK0_EC   |
| 4                            | +5V         |

| <b>COM1/COM2: External COM Port Connectors</b> |        |         |         |                                                                                   |
|------------------------------------------------|--------|---------|---------|-----------------------------------------------------------------------------------|
| PIN NO.                                        | RS-232 | RS-422  | RS-485  |  |
| 1                                              | DCD    | TXD422- | TXD485- |                                                                                   |
| 2                                              | RXD    | TXD422+ | TXD485+ |                                                                                   |
| 3                                              | TXD    | RXD422+ | ---     |                                                                                   |
| 4                                              | DTR    | RXD422- | ---     |                                                                                   |
| 5                                              | GND    | ---     | ---     |                                                                                   |
| 6                                              | DSR    | ---     | ---     |                                                                                   |
| 7                                              | RTS    | ---     | ---     |                                                                                   |
| 8                                              | CTS    | ---     | ---     |                                                                                   |
| 9                                              | RI     | ---     | ---     |                                                                                   |

| <b>COM3~6: Internal Serial Port Connectors</b> |             |
|------------------------------------------------|-------------|
| PIN NO.                                        | DESCRIPTION |
| 1                                              | DCD         |
| 2                                              | DSR         |
| 3                                              | SIN         |
| 4                                              | RTS         |
| 5                                              | SOUT        |
| 6                                              | CTS         |
| 7                                              | DTR         |
| 8                                              | RI          |
| 9                                              | GND         |
| 10                                             | NC          |

| <b>JLAN_LED1/2: LAN Link LED Connector</b> |                   |
|--------------------------------------------|-------------------|
| PIN NO.                                    | DESCRIPTION       |
| 1                                          | +3.3V             |
| 2                                          | LAN1_LED_LNK#_ACT |

**Get more information:**

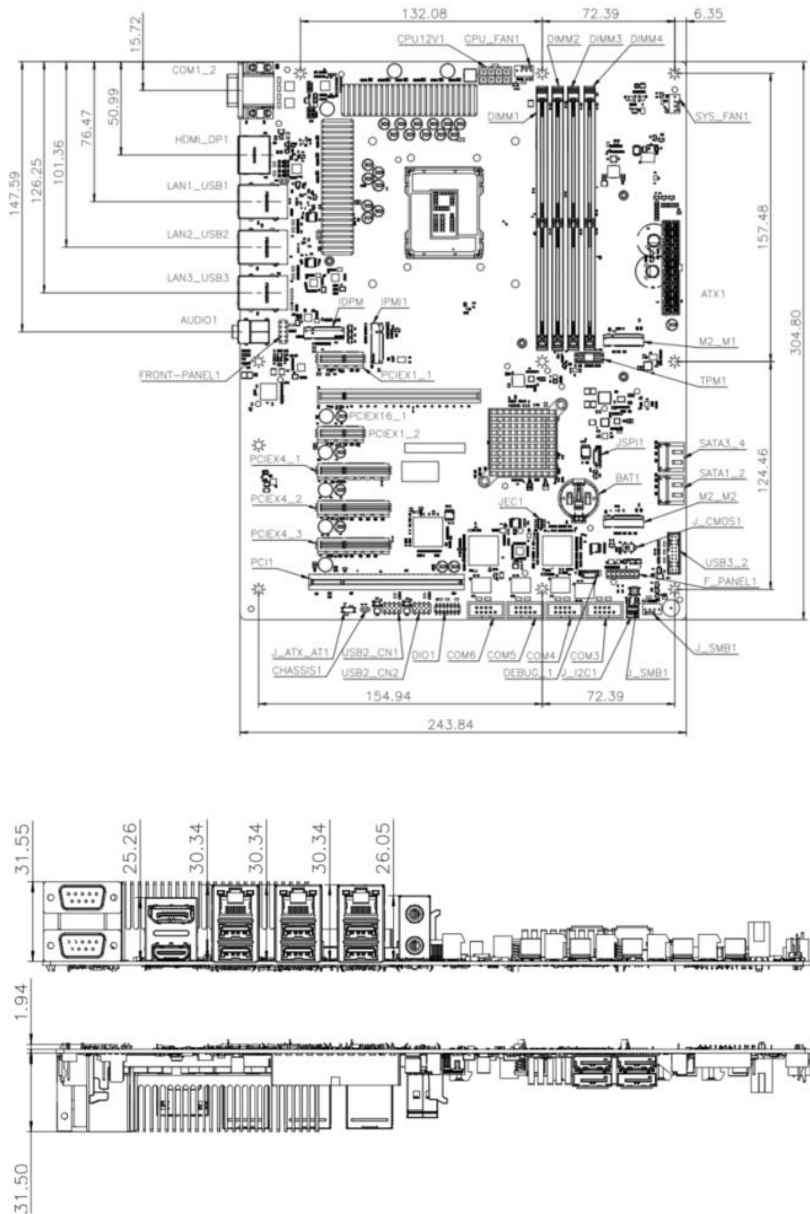


**IMBA-BTL-Q670**



**IEI Resource Download Center**

### Dimensions (Unit: mm)



## Safety Instructions



Warning! Read the user manual before connecting the system to the power source.

Warning! To prevent the system from overheating, do not operate it in an area that exceeds the maximum operating temperature described in the user manual.

Warning! Ultimate disposal of this product should be handled according to all national laws and regulations.

## Support



### IEI Support URL

[http://new.ieiworld.com/tw/online\\_support\\_form](http://new.ieiworld.com/tw/online_support_form)

## Compliance



This equipment has been tested and found to comply with specifications for CE marking. If the user modifies and/or installs other devices in the equipment, the CE conformity declaration may no longer apply.



This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



According to the requirement of the WEEE legislation, the following user information is provided to customers for all branded IEI Electronics products subject to the WEEE directive.

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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