



# IB5-8131

## INTEL B760 CHIPSET MINI-ITX MOTHERBOARD



Intel® LGA1700 Socket  
12<sup>th</sup>/13<sup>th</sup>/14<sup>th</sup> Gen. processors



1 x HDMI (4096 x 2160 @60 Hz)  
1 x DP (7680 x 4320 @60 Hz)  
1 x LVDS (1920 x 1200 @60 Hz)



Support Wi-Fi/BT module  
Support Wi-Fi 6/6E/7



Mini-ITX form-factor  
170 mm x 170 mm (6.69" x 6.69")

### CPU

|                         |                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------|
| <b>CPU</b>              | Intel® LGA1700 Socket 12 <sup>th</sup> /13 <sup>th</sup> /14 <sup>th</sup> Gen. processors |
| <b>Frequency</b>        | By CPU                                                                                     |
| <b>Chipset</b>          | B760                                                                                       |
| <b>Processing Units</b> | By CPU                                                                                     |
| <b>TDP</b>              | ≤ 65 W                                                                                     |

### System

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| <b>GPU</b>                   | Intel® UHD Graphics (By CPU)                                   |
| <b>System Memory</b>         | Up to 96 GB, 2 x U-DIMM DDR5-5600 MHz                          |
| <b>Storage</b>               | 1 x M-Key M.2 (2280) PCIe4.0 X4 for SSD<br>2 x SATAIII         |
| <b>TPM</b>                   | Optional: TPM2.0                                               |
| <b>Watchdog Timer</b>        | Yes                                                            |
| <b>Auto Power On</b>         | Yes                                                            |
| <b>RTC</b>                   | Set up independently every day, a week as a cycle              |
| <b>Power Requirement</b>     | ATX                                                            |
| <b>Dimensions</b>            | 170 mm x 170 mm (6.69" x 6.69")                                |
| <b>Operating system</b>      | Windows 10 (64bit) /Windows 11 (64bit)<br>Linux Ubuntu (64bit) |
| <b>Operating Temperature</b> | 0°C ~60°C (32°F~140°F) @0.7m/s Air Flow                        |
| <b>Storage Temperature</b>   | -20°C ~75°C (-4°F~167°F)                                       |
| <b>Humidity</b>              | 5% ~95% @ 60°C (non-condensing)                                |

### Network

|                           |                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------|
| <b>Network Controller</b> | 1 x Intel® Ethernet Controller I225-V<br>1 x Realtek RTL 8111H Gigabit Ethernet             |
| <b>Wi-Fi/BT</b>           | 1 x E-Key M.2 (2230) for Wi-Fi/BT, Support Wi-Fi 5,<br>Wi-Fi 6/ 6E, (Wi-Fi 7 only 14th CPU) |
| <b>Mobile Network</b>     | NA                                                                                          |

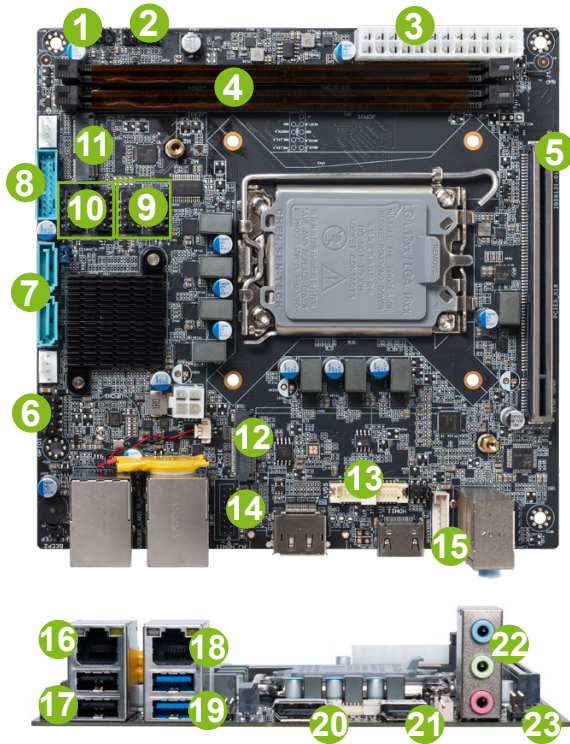
### Rear I/O

|                           |                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------|
| <b>USB</b>                | 2 x USB3.2 Gen2, 2 x USB2.0                                                                  |
| <b>Display Interface</b>  | 1 x HDMI (Max.4096 x 2160 @60 Hz)<br>1 x DP1.4 (Max.7096 x 4320 @60 Hz)<br>VGA colay with DP |
| <b>Audio</b>              | 1 x MIC-IN, 1 x LINE-IN, 1 x AUDIO-OUT                                                       |
| <b>Ethernet Interface</b> | 1 x 2.5GbE RJ45, 1 x 1 GbE RJ45                                                              |

### Internal I/O

|                    |                                                                                      |
|--------------------|--------------------------------------------------------------------------------------|
| <b>USB</b>         | 2 x USB3.2 Gen1, signal by 1 x 19pin header<br>2 x USB2.0, signal by 1 x 9pin header |
| <b>Display</b>     | 1 x 30pin dual channel 24bit LVDS<br>1 x 16pin J_HDMI (Max. 4096 x 2160 @60 Hz)      |
| <b>PCIe</b>        | 1 x PCIe5.0 X16                                                                      |
| <b>Serial port</b> | 2 x RS232, signal by 2 x 9pin header<br>2 x RS232/422/485, signal by 2 x 9pin header |
| <b>Power</b>       | 1 x 24pin + 8pin ATX PWR_IN,                                                         |
| <b>Audio</b>       | 1 x 10pin FP_AUDIO, 1 x 4pin SPEAKER                                                 |
| <b>Others</b>      | 4 x GPI, 4 x GPO<br>1 x 10pin F_PANEL<br>1 x 4pin SYS_FAN, 1 x 4pin CPU_FAN          |

## Dimensions and Drawing



| No. | Dimensions      | No. | Dimensions |
|-----|-----------------|-----|------------|
| 1   | USB2.0          | 20  | DP         |
| 2   | F_PANEL         | 21  | HDMI-OUT   |
| 3   | ATX             | 22  | AUDIO      |
| 4   | 2*U-DIMM        | 23  | F_AUDIO    |
| 5   | PCIE X16        |     |            |
| 6   | GPIO            |     |            |
| 7   | 2*SATAIII       |     |            |
| 8   | F_USB3.2 Gen1   |     |            |
| 9   | 2*RS232         |     |            |
| 10  | 2*RS232/422/485 |     |            |
| 11  | M.2 (2230)      |     |            |
| 12  | M.2 (2280)      |     |            |
| 13  | LVDS            |     |            |
| 14  | J_HDMI          |     |            |
| 15  | INVERTER        |     |            |
| 16  | RJ45            |     |            |
| 17  | 2*USB2.0        |     |            |
| 18  | 2.5GbE RJ45     |     |            |
| 19  | 2*USB3.2 Gen2   |     |            |

## Order information

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Intel® B760 Chipset

## Optional

NA