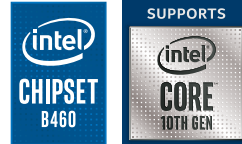


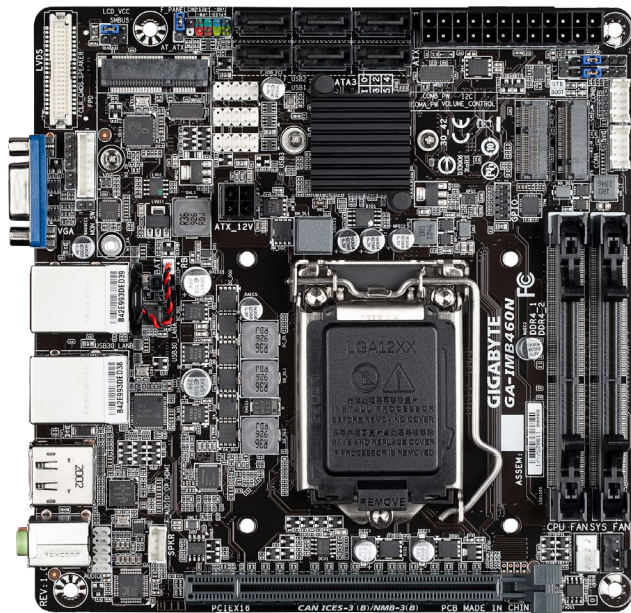
# GIGABYTE™



## GA-IMB460N

### Intel® 10<sup>th</sup> Core I Series Embedded Mini ITX MB

Overview



Rear I/O



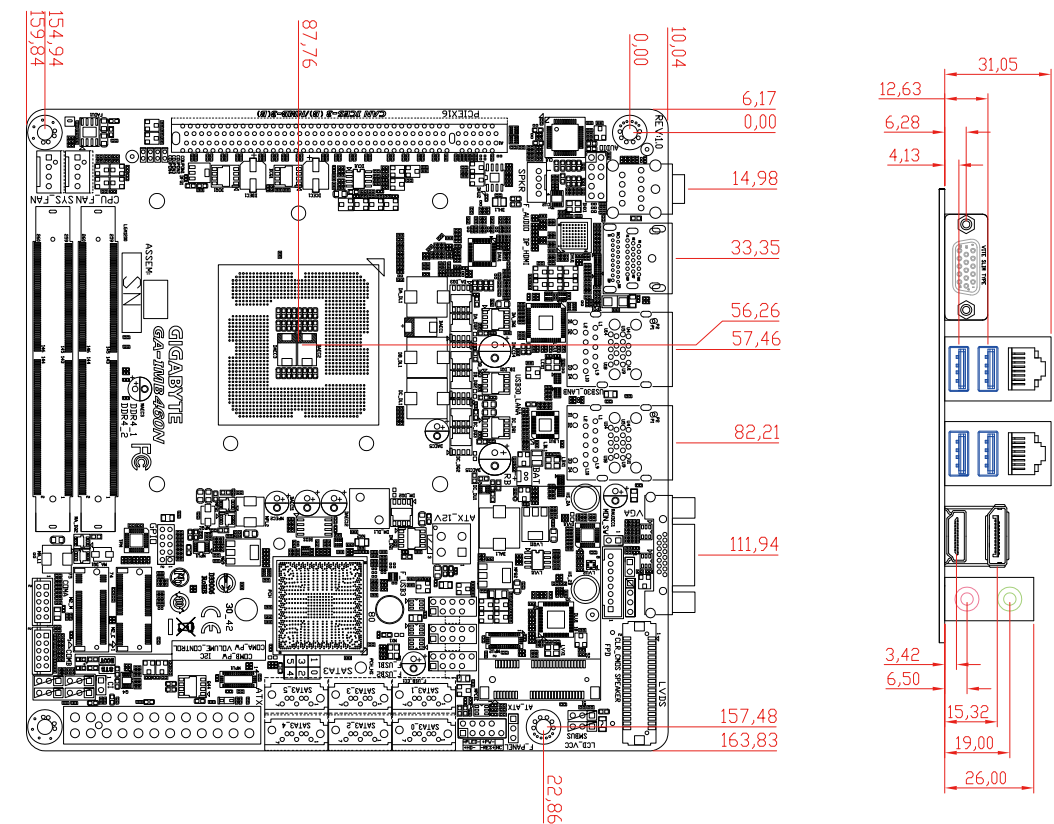
#### Product Feature

- Mini ITX Motherboard
- Socket LGA1200 for Intel Core i9/ i7/ i5/ i3/ Pentium/ Celeron(Comet lake-S)
- Intel® Gen9.5 Intel® Graphics DX 12, OGL4.4/4.5
- Supports Dual Channel DDR4 2666 / 2933 MHz, 2 x SO-DIMM, up to 32GB system memory
- 1 x HDMI2.0, 1 x DP Port, 1 x Dual Channel 24-bit LVDS / eDP
- 4 x USB 3.0, 6 x USB 2.0, 6 x SATA3
- 1 x mini-PCIe/mSATA, 1 x PCIe x16 slot, 1 x M.2 wifi slot, 1 x M.2 SSD
- Gigabit LAN : 2 x Intel Lan
- 1 x TPM Module IC (optional)
- ATX power require

#### SPEC

|                    |                       |   |
|--------------------|-----------------------|---|
| Form Factor        | Dimensions            | Mini-ITX (6.7-in x 6.7-in)/(170 x 170 mm)   |
| Processor System   | CPU                   | Socket LGA1200 for Intel Core i7/i5/i3/Pentium/Celeron (Comet lake support 65W)                 |
|                    | Chipset               | B460  |
| Expansion Slot     | PCI                   | 0   |
|                    | Mini-PCIe             | 1x Full size mini-PCIe slot, co-lay with mSATA  |
|                    | PCIe                  | x16   |
|                    | M.2                   | 1 x M.2 2242/80 SATA/PCIe slot for storage<br>1 x M.2 Wifi slot                                 |
| Memory             | Technology            | Dual Channel DDR4 2666/2933 MHz SDRAM   |
|                    | Max.                  | 32G   |
| Graphics           | Controller            | Intel® Gen9.5 Intel Graphics DX 12*, OGL4.5   |
|                    | VRAM                  | Shared Memory   |
|                    | VGA                   | Supports max. resolution 1920 x 1200  |
|                    | LVDS                  | Yes, co-lay with eDP  |
|                    | HDMI                  | HDMI 2.0, max resolution 3840 x 2160@60Hz   |
|                    | DVI                   | No  |
|                    | Display Port          | Yes   |
|                    | Multi Display         | Yes (Dual Display)  |
| LAN                | Controller            | 1 x Intel® i211AT , 1 x I219V   |
| SATA               | Max DTR               | SATA3 (6.0Gb/s)   |
| Rear I/O           | VGA                   | 1   |
|                    | HDMI2.0               | 1   |
|                    | Display Port          | 1   |
|                    | Ethernet              | 2   |
|                    | USB                   | 4 x USB 3.0   |
|                    | Audio                 | 2 (Mic-in, Line-out)  |
|                    | Serial                | 0   |
|                    | USB                   | 6 x USB 2.0 compliant   |
|                    | LVDS/Inverter         | 1   |
|                    | VGA                   | 0   |
| Internal Connector | Serial                | 1 x RS-232, 1 x RS-232/422/485  |
|                    | SATA                  | 6 x SATA3 (6.0Gb/s)   |
|                    | Mini-PCIe             | 1   |
|                    | Parallel              | 0   |
|                    | Digital I/O           | 4 in / 4 out  |
|                    | I2C/SMBUS             | 1   |
|                    | SATA PWR Output       | 0   |
| Watchdog Timer     | Output                | From Super I/O to drag RESETCON#  |
|                    | Interval              | 256 segments, 0,1,2...255sec/min  |
| Power Requirements | Input PWR             | ATX<br>4 Pin ATX PWR connector  |
|                    | Power On              | AT/ATX Supported  |
|                    |                       | AT: Directly PWR on as Power input ready<br>ATX: Press Button to PWR on after Power input ready |
| Power consumption  | Typical               | TBD   |
| Certification      | EMC                   | CE/FCC  |
| Environment        | Operating Temperature | 0°C – 60°C  |

#### Mechanism Drawing



#### Ordering Information

| Model Name | Ordering Information   |
|------------|--|
| GA-IMB460N | Socket 1200, HDMI2.0, DP VGA, LVDS, 6 x SATA, Dual LAN, 4 x USB3.0 / 6 x USB2.0, 1 x RS232, 1 x RS232/422/485, 1 x Mini PCIe/mSATA, 1 x M.2 Wifi, 1 x M.2 SSD, PCIe x16, ATX |

#### Optional Accessories

| Part Number      | Cable Usage | Description  |
|------------------|-------------|--|
| 12CF1-1CM011-01R | COM         | 1IN1 CB/JST 2*5P/PH2/KIMWELL COM 9MA(PC99)/200mm+SCREW*2     |
| 12CF1-2SAT1B-01R | SATA        | 2IN1 CB/SATA(S)/BLACK/CODE CPU90*180*1/180*180*1/2H*8P/50 CM |
| 24TSE-621PET-01R | Cooler      | Low profile CPU cooler                                       |

\* The entire materials provided herein are for reference only. GIGABYTE reserves the right to modify or revise the content at anytime without prior notice. Adverised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration. All trademarks and logos are the properties of their respective holders. Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.