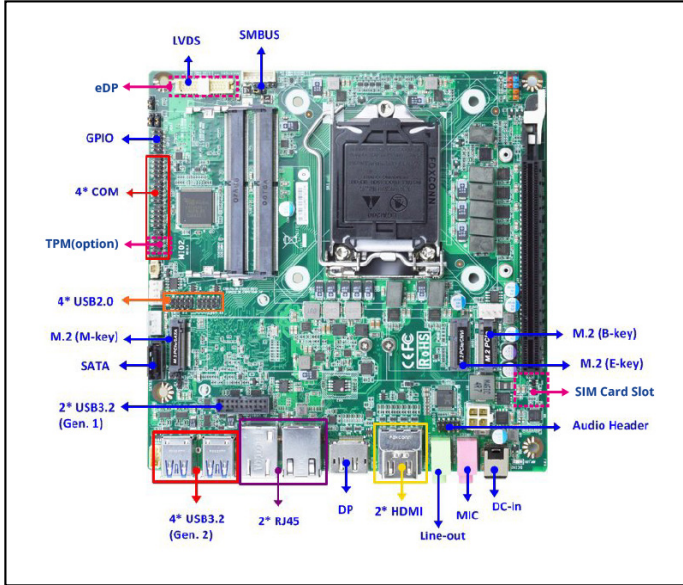


Mini-ITX Motherboard with Intel® LGA1200 10/11th Gen Socket Processor, Supporting Wide-Range DC-in 12-28V



## Features

- Powered by Intel® LGA1200 10/11th Gen Socket Processor with H470 Chipset (Comet Lake-S, TDP 65W)
- Triple display outputs via 2 x 4K HDMI, 1 x 4K DP, 1 x LVDS, and 1 x 4K eDP
- Dual Ethernet ports with 1 x Intel® 2.5GbE and 1 x Intel® GbE for reliable networking
- Flexible storage options with 1 x SATA III and 1 x M.2 M-key (SATA/NVMe) supporting RAID
- Additional expansion via 1 x PCIe x16, 1 x M.2 E-key, 1 x M.2 B-key, and 1 x Nano SIM card slot
- Comprehensive I/O including 10 USB (4 x USB 3.2 Gen2), 4 x COM, and 1 GPIO
- Wide-range power support with DC-in 12-28V
- Optional onboard TPM 2.0 support for enhanced data security

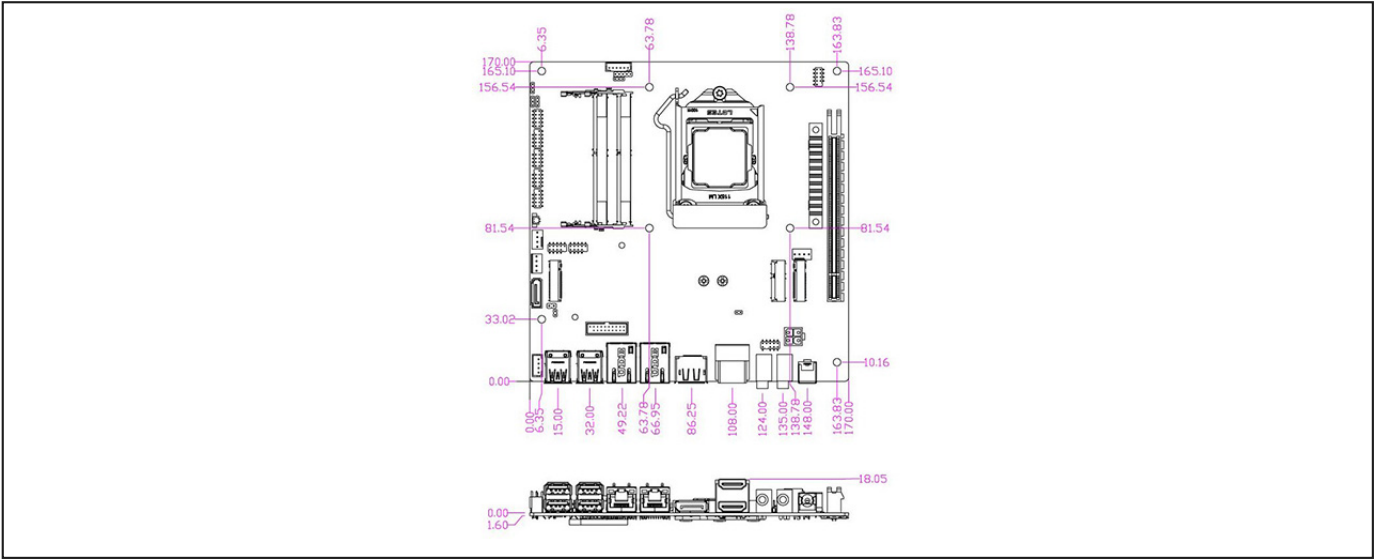
## Packing List

| PART NUMBER       | DESCRIPTION           | QTY |
|-------------------|-----------------------|-----|
| MI02-30 Series    | MI02-30 / MI02-32 M/B | 1   |
| F04-MB-083-1F     | MI02 I/O shield       | 1   |
| G01-SATA3-BL-1F   | SATA Cable            | 1   |
| G01-COM-H2M22-1F  | COM Cable             | 2   |
| G01-PW4PS-2S-323F | SATA Power Cable      | 1   |

## Specifications

| SYSTEM                      |   |
|-----------------------------|---|
| MB FORM FACTOR              | Mini-ITX  |
| CPU                         | Intel® LGA1200 10/11th Gen Socket Processor (Formerly Comet Lake-S, TDP 65W)  |
| CHIPSET                     | Intel® H470   |
| MEMORY                      | 2 x DDR4 2933/2666/2400MHz, Dual Channel SO-DIMM, up to 64GB<br>Actual memory support depends on the specific CPU and model                               |
| BIOS                        | AMI 256Mb Flash ROM   |
| WATCHDOG TIMER              | 255 Levels  |
| SECURITY                    | TPM2.0  |
| DIMENSION (W X D)           | 170.0 (W) x 170.0 (D) mm (6.7" x 6.7")  |
| OS SUPPORT                  | Windows® 11 (64bit)<br>Windows® 10 (64bit)<br>Linux   |
| POWER                       |   |
| POWER REQUIREMENT           | DC-in 12-28V  |
| POWER ON MODE               | AT / ATX  |
| CONNECTOR                   | DC Jack   |
| DISPLAY                     |   |
| GPU                         | Intel® HD Graphics  |
| LVDS                        | 1 x LVDS (Max. Resolution: 1920 x 1200 @60Hz)   |
| eDP                         | 1 x eDP (Max Resolution: 4096 x 2304@60Hz)  |
| DP                          | 1 x DP (Max Resolution: 4096 x 2304@60Hz)   |
| HDMI                        | 2 x HDMI 1.4 (Max Resolution: 4096 x 2160@30Hz)   |
| MULTIPLE DISPLAY            | Support 3 Displays  |
| AUDIO                       |   |
| CODEC                       | Realtek Audio Codec   |
| Line-out                    | 1 x Audio Jack for Line-Out   |
| MIC-in                      | 1 x Audio Jack for MIC-In   |
| LAN                         |   |
| ETHERNET                    | 1 x RJ45 for Intel® I219-V GbE<br>1 x RJ45 for Intel® I226-LM 2.5GbE  |
| USB PORT                    |   |
| USB                         | 4 x USB 3.2 Gen 2x1 (10Gbps, Formerly USB 3.1 Gen 2)<br>Internal Header for 2 x USB 3.2<br>Internal Header for 4 x USB 2.0                                |
| SERIAL PORT                 |   |
| COM                         | Internal Header for 2 x RS-232/422/485<br>Internal Header for 2 x RS-232  |
| INTERNAL I/O                |   |
| GPIO                        | 8-Bit   |
| SMBUS                       | Yes   |
| ADDITIONAL                  | 1 x Chassis Intrusion<br>1 x Audio Header<br>1 x eDP<br>1 x LVDS<br>1 x AT Mode Selection   |
| STORAGE                     |   |
| SATA                        | 1 x SATA III  |
| RAID                        | RAID 0/1  |
| EXPANSION                   |   |
| M.2                         | 1 x M-key 2280 (SATA/PCle4) support NVMe<br>1 x E-Key 2230 (USB 2.0/PCle x1) Support CNVi<br>1 x B-key 3042/3052 (USB3.0/PCle x1) support W/SIM card slot |
| PCIe                        | 1 x PCIe x16  |
| SIM                         | 1 x Nano SIM Card Slot  |
| ENVIRONMENT & CERTIFICATION |   |
| SHOCK                       | 15G, 11ms duration  |
| VIBRATION                   | 1 Grms/ 5- 500Hz/ Operation   |
| OPERATING TEMPERATURE       | 0°C ~ 60°C (32°F ~ 140°F)   |
| STORAGE TEMPERATURE         | -20°C ~ 85°C (-4°F ~ 185°F)   |
| OPERATING HUMIDITY          | 10 ~ 90% Relative Humidity, Non-condensing  |
| CERTIFICATION               | CE/FCC Class A<br>LVD   |
| ESG DECLARATION             | EU RoHS<br>China RoHS<br>REACH  |

## Dimension Unit: mm



## Ordering Information

| PART NUMBER | MI02-30-A1        | MI02-32-A1    |
|-------------|-------------------|---------------|
| SECURITY    | Intel® PTT (fTPM) | TPM2.0 (dTPM) |