



## MI12-00C Series

*Intel® Apollo Lake SoC Processor, DDR3L up to 8GB, 2\* HDMI, 1\* LVDS, 1\* eDP, 6\* COM*

1. Intel® Apollo Lake series SoC Processor. (Default J3455)
2. 1\* DDR3L 1866MHz SO-DIMM up to 8GB
3. 2\* Realtek RTL8111H GbE
4. 2\* HDMI, 1\* LVDS, 1\* eDP, support triple displays
5. 6\* COM, 4\* USB3.0, 5\* USB2.0
6. 1\* Mini PCIe, 1\* SIM card slot
7. 1\* SATAIII, 1\* M.2 (M-key, 2242/2260), 1\* 32GB eMMC (option)
8. 12V DC-in



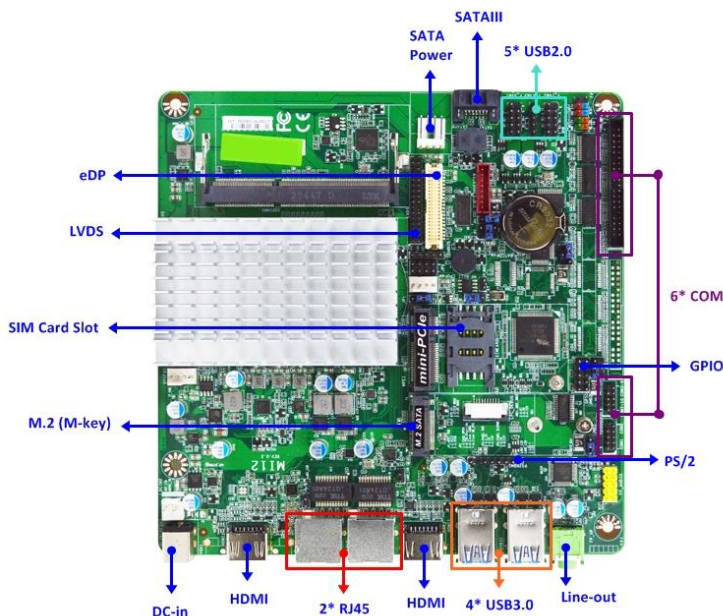
### Overview

The JETWAY MI12-00C series are Slim Mini-ITX form factor board adopts the Intel® Apollo Lake SoC Processor. The board supports DDR3L 1866MHz SO-DIMM memory, up to 8GB. Featuring the integrated Realtek Gigabit Ethernet controller, the MI12-00C offers 10/100/1000Base-TX Ethernet devices for network transmission. SATAIII (6Gb/s) interface, one M.2 (M-key, 2242/2260) and 32GB eMMC (option) offer storage devices. One Mini PCIe interface, four USB3.0 ports, five USB2.0 ports and six COM ports provide versatile expansion. The MI12-00C series offers eDP interface which can support Max. 4K@60Hz resolution. Because of the above features, MI12-00C series is one of the best selections for digital signage and automation applications.

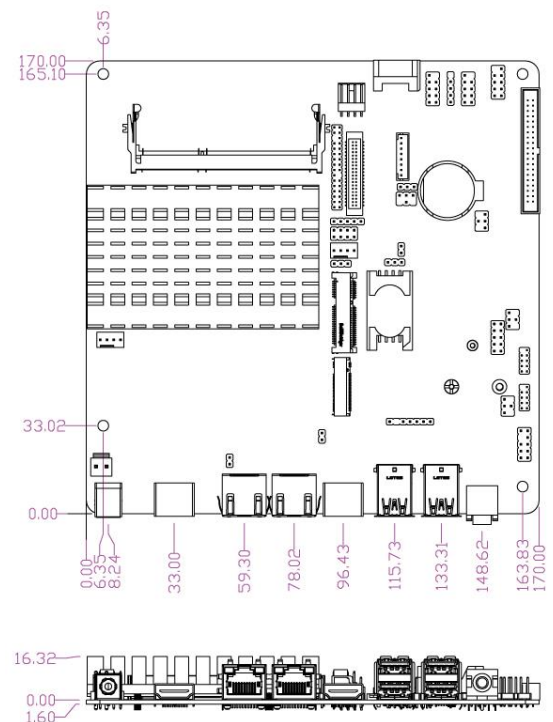
### Application

Digital Signage / POS / KIOSK / Industrial Automation

### I/O Diagram



### Mechanical Drawings (Unit = mm)



## Specifications

### Model

- MI12-00C
- MI12-02C (W/TPM2.0)

### Processor System

- Intel® Apollo Lake SoC Processor
- Intel® J3455 SoC chipset
- AMI 128Mb Flash ROM BIOS

### Memory

1\* DDR3L 1866MHz SDRAM SO-DIMM up to 8GB

### Ethernet

2\* Realtek RTL8111H GbE

### Storage

- 1\* SATAIII (6.0Gb/s)
- 1\* M.2 M-key 2242/2260 (SATA interface)
- 32GB eMMC (option) [eMMC is recommend to set as primary boot device for Windows 10 OS boot up](#)

### Internal Connector

- 5\* USB2.0
- 5\* RS232 (COM1~3 with Powered 5V/12V)
- 1\* RS232/422/485
- 1\* SATAIII
- 1\* Mini PCIe (full size)
- 1\* M.2 M-key 2242/2260
- 1\* LVDS (Selectable with eDP, not working while using LVDS)
- 1\* eDP (Selectable with LVDS, not working while using eDP)
- 1\* GPIO (4in/4 out)
- 1\* SMBUS
- 1\* AT mode
- 1\* SIM card slot
- 1\* PS/2
- 1\* TPM2.0 (MI12-02C only)

### Power

12V DC-in, AT/ATX Mode Supported

- AT: Directly PWR on as Power input ready
- ATX: Press Button to PWR on after Power input ready

### Temperature

- Operating: 0°C ~ 60°C (with 0.7m/s air flow)
- Storage: -20°C ~ 85°C
- Humidity: 10% ~ 90% RH @40°C (non-condensing)

### Warranty

2 Years Limited Warranty

\* Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

### Form Factor

Slim Mini-ITX (6.7-in \* 6.7-in, 170 \* 170mm)

### Expansion Slot

- 1\* Mini PCIe (full size, USB signal only)
- 1\* SIM card slot

### Graphics

- Intel® HD Graphics
- 2\* HDMI (Max. Resolution: 3840 x 2160@30Hz)
- 1\* LVDS (Max. Resolution: 1920 \* 1200@60Hz, selectable with eDP, not working while using LVDS)
- 1\* eDP (Max Resolution: 3840×2160@60Hz, selectable with LVDS, not working while using eDP)
- Support triple displays

### Audio

C-Media HS-100B USB Audio Chip

### Rear I/O

- 2\* RJ45
- 4\* USB3.0
- 2\* HDMI
- 1\* Line-out
- 1\* DC-in jack

### Watchdog Timer

- From Super I/O to drag RESETCON#
- 256 segments, 0,1,2...255sec

### Compliance

CE, FCC, RoHS, REACH

### OS Support

Windows 10, Linux

## Standard Accessories

| Parts Number      | Description         | Parts Number     | Description    |
|-------------------|---------------------|------------------|----------------|
| -----             | MI12-00C Series M/B | G01-COM-H2M22-1F | 2* COM cable   |
| F04-MB-069-F      | I/O shield          | G01-COM9X4-40A-F | 1* COMx4 cable |
| G01-PW4PS-2S-322F | 1* SATA power cable | G01-SATA3-BL-1F  | 1* SATA cable  |