

MI12-00V Series

Intel® Apollo Lake SoC Processor, DDR3L up to 8GB, 1* HDMI, 1* VGA, 1* LVDS, 1* eDP

1. Intel® Apollo Lake series SoC Processor. (Default J3455)
2. 1* DDR3L 1866MHz SO-DIMM up to 8GB
3. 2* Realtek RTL8111H GbE
4. 1* HDMI, 1* VGA, 1* LVDS, 1* eDP
5. 10* COM, 4* USB3.0, 5* USB2.0
6. 1* Mini PCIe, 1* SIM card holder
7. 1* SATA III (6Gb/s), 1* M.2 (M-key, 2242/2260), 1* 32GB eMMC (option)
8. 12V DC-in



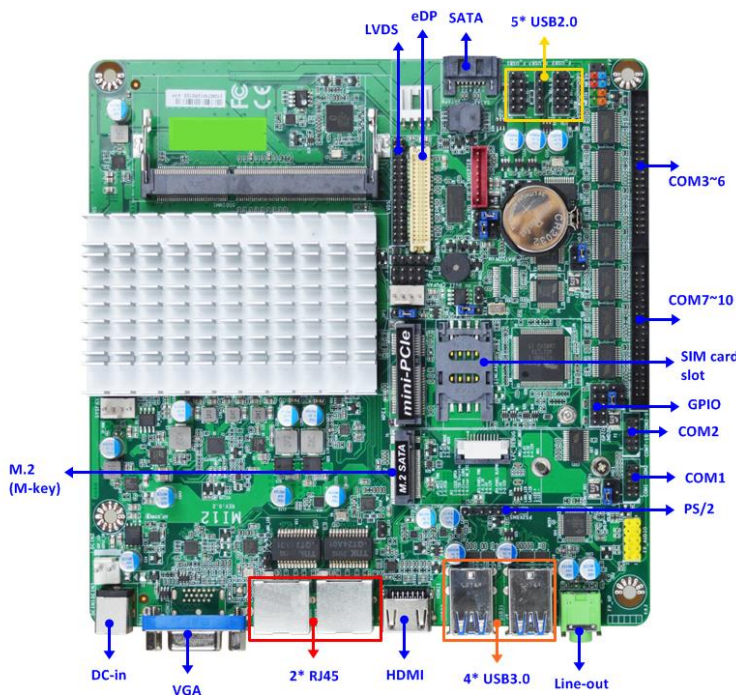
Overview

The JETWAY MI12-00V 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 MI12-00V 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 ten COM ports provide versatile expansion. The MI12-00V series offers eDP interface which can support Max. 4K@60Hz resolution. Because of the above features, MI12-00V series is one of the best selections for digital signage and automation applications.

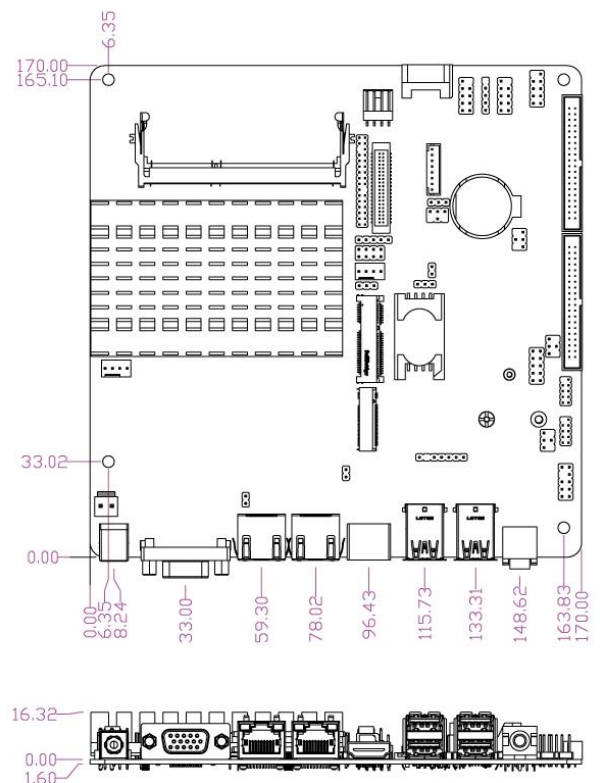
Application

Digital Signage / POS / KIOSK / Industrial Automation

I/O Diagram



Mechanical Drawings (Unit = mm)



Specifications

Model

- MI12-00V
- MI12-02V (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
- 9* RS232 (COM1~3 with Powered 5V/12V)
- 1* RS232/422/485 (COM1)
- 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 holder
- 1* PS/2
- 1* TPM2.0 (MI12-02V optional)

Power

12V DC-in, AT/ATX 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
- 1* HDMI (Max. Resolution: 3840 x 2160@30Hz)
- 1* VGA (Max. Resolution: 1920x1080@60Hz)
- 1* LVDS (Max. Resolution: 1920 x 1200@60Hz, selectable with eDP, not working while using LVDS)
- 1* eDP (Max Resolution: 3840 x 2160@60Hz, selectable with LVDS, not working while using eDP)

Audio

C-Media HS-100B USB Audio Chip

Rear I/O

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

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
-----	MI12-00V 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