

## 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



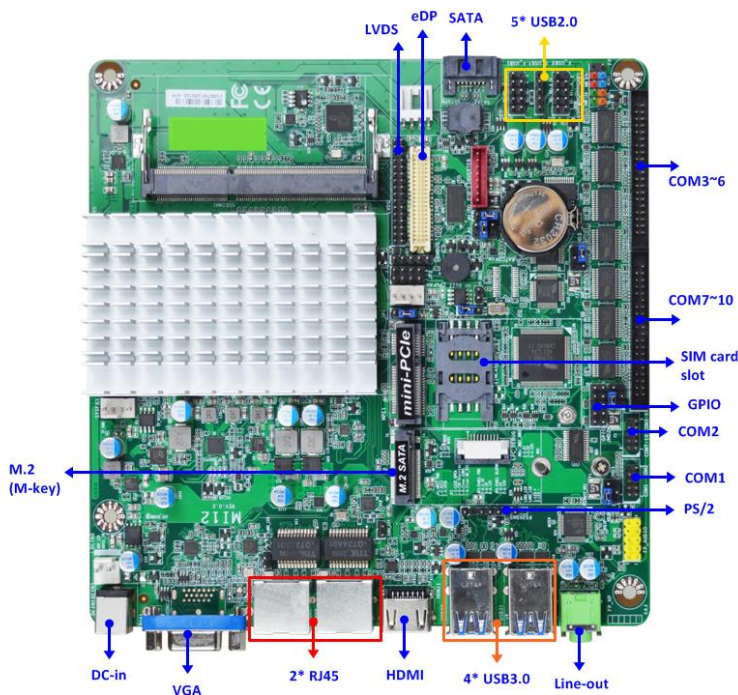
### Overview

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

<b>Model</b>	<b>Form Factor</b>
<ul style="list-style-type: none"><li>• MI02-00V</li><li>• MI02-02V (W/TPM2.0)</li></ul>	Slim Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)
<b>Processor System</b>	<b>Expansion Slot</b>
<ul style="list-style-type: none"><li>• Intel® Apollo Lake SoC Processor</li><li>• Intel J3455 SoC chipset</li><li>• AMI 128Mb Flash ROM BIOS</li></ul>	<ul style="list-style-type: none"><li>• 1* Mini PCIe (full size, USB signal only)</li><li>• 1* SIM card slot</li></ul>
<b>Memory</b>	<b>Graphics</b>
1* DDR3L 1866MHz SDRAM SO-DIMM up to 8GB	<ul style="list-style-type: none"><li>• Intel® HD Graphics</li><li>• 1* HDMI (Max. Resolution: 3840 x 2160@30Hz)</li><li>• 1* VGA (Max. Resolution: 1920 x 1200@60Hz)</li><li>• 1* LVDS (Max. Resolution: 1920 x 1200@60Hz, selectable with eDP, not working while using LVDS)</li><li>• 1* eDP (Max Resolution: 4096 x 2160@60Hz, selectable with LVDS, not working while using eDP)</li></ul>
<b>Ethernet</b>	<b>Audio</b>
2* Realtek RTL8111H GbE	C-Media HS-100B USB Audio Chip
<b>Storage</b>	<b>Rear I/O</b>
<ul style="list-style-type: none"><li>• 1* SATAIII (6.0Gb/s)</li><li>• 1* M.2 M-key 2242/2260 (SATA interface)</li><li>• 32GB eMMC (option) eMMC is recommend to set as primary boot device for Windows 10 OS boot up</li></ul>	<ul style="list-style-type: none"><li>• 2* RJ45</li><li>• 4* USB3.0</li><li>• 1* HDMI</li><li>• 1* VGA</li><li>• 1* Line-out</li><li>• 1* DC-in</li></ul>
<b>Internal Connector</b>	<b>Watchdog Timer</b>
<ul style="list-style-type: none"><li>• 5* USB2.0</li><li>• 9* RS232 (COM1~3 with Powered 5V/12V)</li><li>• 1* RS232/422/485 (COM1)</li><li>• 1* SATAIII</li><li>• 1* Mini PCIe (full size)</li><li>• 1* M.2 M-key 2242/2260</li><li>• 1* LVDS (Selectable with eDP, not working while using LVDS)</li><li>• 1* eDP (Selectable with LVDS, not working while using eDP)</li><li>• 1* GPIO (4in/4 out)</li><li>• 1* SMBUS</li><li>• 1* AT mode</li><li>• 1* SIM card holder</li><li>• 1* PS/2</li><li>• 1* TPM2.0 (MI12-02V optional)</li></ul>	<ul style="list-style-type: none"><li>• From Super I/O to drag RESETCON#</li><li>• 256 segments, 0,1,2...255sec</li></ul>
<b>Power</b>	<b>Compliance</b>
12V DC-in, AT/ATX Supported - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready	CE, FCC, RoHS, REACH
<b>Temperature</b>	<b>OS Support</b>
<ul style="list-style-type: none"><li>• Operating: 0°C ~ 60°C (with 0.7m/s air flow)</li><li>• Storage: -20°C ~ 85°C</li><li>• Humidity: 10% ~ 90% RH @40°C (non-condensing)</li></ul>	Windows 10, Linux
<b>Warranty</b>	
2 Years Limited Warranty	

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

## Accessories

Parts Number	Description	Parts Number	Description
-----	MI02-00V Series M/B	G01-COM-H2M22-1F	COM cable
F04-MB-069-F	I/O shield	G01-COM9X4-40A-F	COMx4 cable