



# JNF894V-3455 Series

Intel® Apollo Lake SoC Processor, DDR3L up to 8GB, 2\* 2.5GbE, 9~36V wide voltage solution

1. Intel® Apollo Lake SoC Processor (Default J3455)
2. 2 \* DDR3L SO-DIMM up to 8GB
3. Support 2 \* HDMI, 1 \* eDP, 1 \* LVDS
4. 2 \* 10/100/1000/2500 Base-TX Ethernet Ports
5. 6 \* COM, 4 \* USB3.0, 3 \* USB2.0
6. 1 \* PCIe x1 slot, 1 \* Mini PCIe slot (1\* full size), 1 \* M.2 (M-key, 2242/2280)
7. Support 1 \* SATAIII (6Gb/s), 32GB eMMC (option)
8. 9~36V DC-in



## Overview

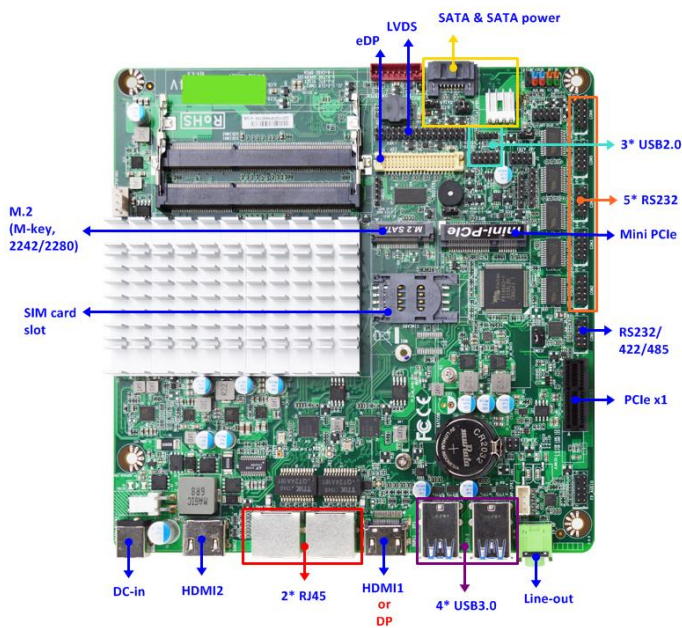
The JETWAY JNF894V Series is Slim Mini-ITX form factor board adopts the Intel® Apollo Lake SoC Processor. The board supports DDR3L 1866MHz SO-DIMM memory, up to 8GB. Featuring the integrated two Intel 2.5 Gigabit Ethernet controllers, the JNF894V offers 10/100/1000/2500 Base-TX Ethernet devices for network transmission. SATAIII (6Gb/s) interface, one M.2 (M-key, 2242/2280) and 32GB eMMC (option) offer storage devices. One Mini PCIe interface, four USB3.0 ports, three USB2.0 ports and six COM ports provide versatile expansion. The JNF894V offers two HDMI interface which can support max. 3840x2160@30Hz resolution. Because of the above features, JNF894V is one of the best selections for industrial automation and industrial PPC applications.



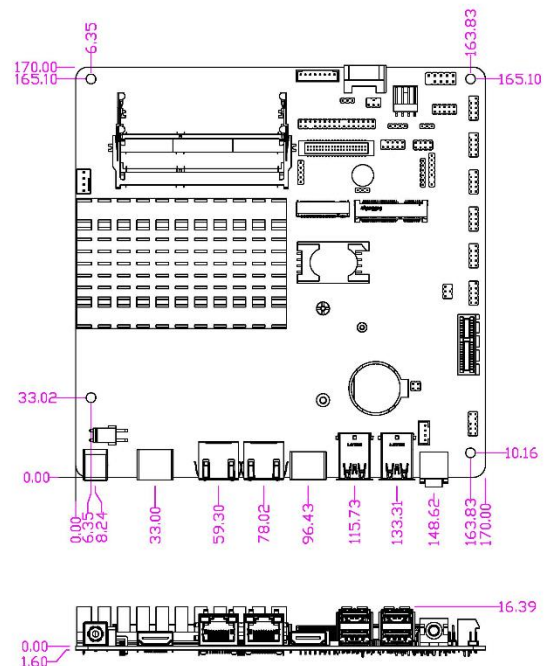
## Application

Industrial Automation / Industrial Panel PC / KIOSK / Digital Signage

## I/O Diagram



## Mechanical Drawings (Unit = mm)



## Specifications

### Model

- JNF894V-3455 (Default)
- JNF894V32-3455 (32GB eMMC onboard)

### Processor System

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

### Memory

2\* Dual CH DDR3L 1866MHz SDRAM up to 8GB

### Ethernet

2\* Intel i225V 2.5GbE

### Storage

- 1\* SATAIII (6.0Gb/s)
- 32GB (option. If use Win 10 OS, we recommend the eMMC is use for OS boot up purpose)
- 1\* M.2 (M-key, 2242/2280) for SATA interface

### Internal Connector

- 3\* USB2.0
- 1\* PS/2
- 1\* LVDS/inverter
- 1\* eDP
- 6\* COM (COM1 support RS232/422/485 w/ power)
- 1\* SATAIII (6.0Gb/s)
- 1\* Mini PCIe (full size)
- 1\* M.2 (M-key, 2242/2280)
- 1\* GPIO (8 bit)
- 1\* Chassis intrusion
- 1\* Audio Header
- 1\* SMBUS / I2C
- 1\* AT mode
- 1\* TPM (onboard option)

### Power

9~36V 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\* full size Mini PCIe
- 1 \* PCIe x1
- 1\* SIM card slot

### Graphics

- Intel® HD Graphics, shared memory
- 1\* LVDS (Max. 1920 x 1080@60Hz resolution) (Selectable with eDP, not working while using LVDS)
- 1\* eDP 1.3 (Max. 4096 x 2160@60Hz resolution) (Selectable with LVDS, not working while using eDP)
- 2\* HDMI 1.4 (Max. Resolution: 3840 x 2160@30Hz) (one option with DP, Default HDMI)
- 1\* DP1.2 (Max. Resolution: 4096 x 2160@60Hz) (option with HDMI)
- Support Triple Displays

### Audio

2 channel HD audio: Realtek ALC888S

### Rear I/O

- 2\* HDMI (default)
- 1\* DP (option with one HDMI)
- 2\* RJ45
- 4\* USB 3.0
- Line-out
- 1\* DC-in

### Watchdog Timer

- From Super I/O to drag RESETCON#
- 256 segments (10sec ~ 255min)

### Compliance

CE, FCC, LVD, RoHS, REACH

### OS Support

Windows 10, Linux

## Standard Accessories

Parts Number	Description	Parts Number	Description
-----	JNF894V M/B	G01-COM-H2M22-1F	COM Cable
F04-MB-069-F	I/O shield		