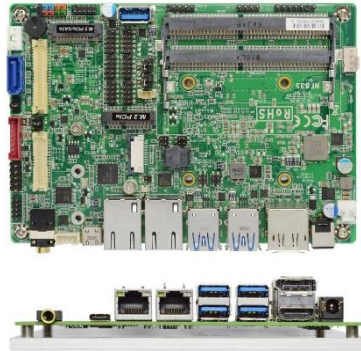




# JNF835V-8365UE Series

Intel® Whiskey Lake-U Series SoC Processor, Support DDR4 up to 64GB, Multiple COM port, Type C USB3.1 (Gen2), Dual LAN, Support Intel CNVi

1. Intel® Whiskey Lake-U SoC Processor (TDP 15W)
2. 2\* DDR4 2400MHz SO-DIMM up to 32GB
3. 1\* GbE, 1\* 2.5GbE
4. 1\* HDMI, 1\* DP, 1\* eDP, 1 \* 24-bits Dual CH LVDS
5. 6\* COM (COM1 support RS232/422/485),  
4\* USB3.1 Gen.2, 2\* USB3.1 Gen.2 (Type C & Vertical type) & 3\* USB2.0
6. 1\* M.2 M-key (2242/2260/2280) support NVMe,  
1\* M.2 E-key (2230 w/ CNVi)
7. 1\* SATA III (6Gb/s)
8. Support onboard TPM 2.0



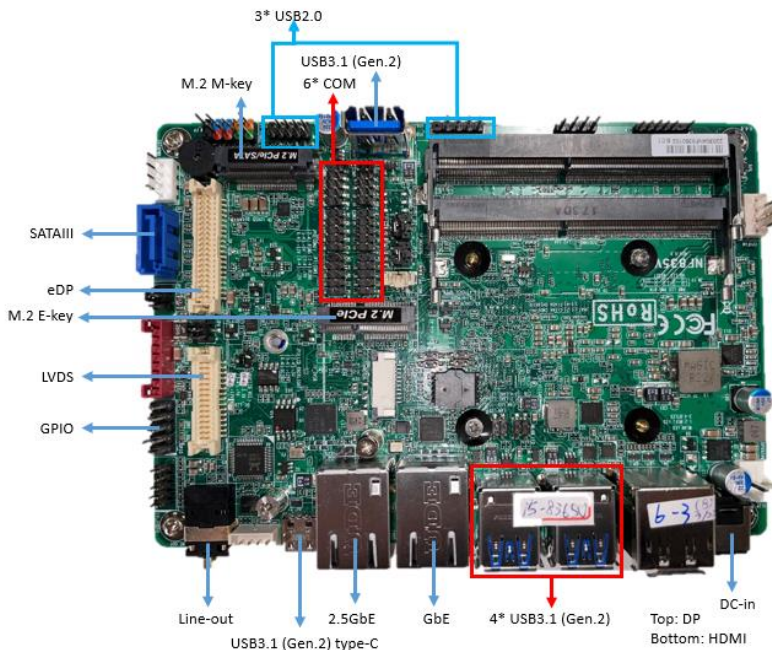
## Overview

The JETWAY JNF835V is 3.5" form factor board adopts the Intel® Whiskey Lake-U SoC Processors. The board supports two SO-DIMM DDR4 2400Mhz memory, up to 64GB. Featuring the integrated Intel® Gigabit Ethernet controller, the JNF835V offers one 10/100/1000Base-TX & one 10/100/1000/2500Base-TX Ethernet devices for network transmission. One SATAIII (6Gb/s) interface and one M.2 M-key offer storage devices. One four USB3.1 Gen.2 ports, two USB3.1 Gen.2 ports for Type C and Internal Vertical connector, three USB2.0 ports and six COM ports provide versatile expansion. The M.2 E-key can support WIFI/3G/4G and Intel CNVi interface. The JNF835V offers one HDMI1.4 port, one DP1.4 port, one eDP port and one 24-bits Dual CH LVDS which can support 3 independent displays. Because of the above features, JNF835V is suitable for Digital Signage, Industrial PCs, Factory Automation, IOT Solution applications.

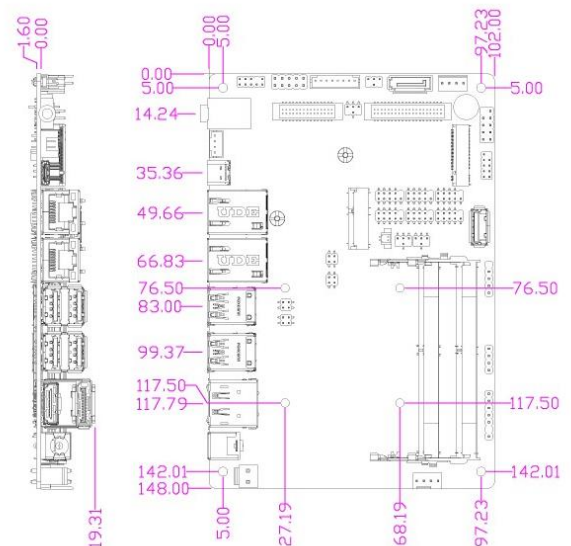
## Application

Digital Signage / Industrial PCs / Factory Automation /Retail Solution

## I/O Diagram



## Mechanical Drawings (Unit = mm)



## Specifications

<b>Model</b>	<b>Form Factor</b>
<ul style="list-style-type: none"><li>JNF835V-8365UE (Default)</li><li>JNF835V-8265U</li></ul>	3.5" (5.8-in * 4.0-in, 148 * 102mm)
<b>Processor System</b>	<b>Expansion Slot</b>
<ul style="list-style-type: none"><li>Intel® Whiskey Lake-U SoC Processor (TDP 15W)</li><li>AMI Flash ROM BIOS</li></ul>	<ul style="list-style-type: none"><li>M.2 M-key (2242/2260/2280) Support PCIe4(NVMe) &amp; SATA interface</li><li>M.2 E-key (2230) Support CNVi</li></ul>
<b>Memory</b>	<b>Graphics</b>
2* SO-DIMM DDR4 2400MHz Dual CH SDRAM non-ECC up to 64GB	<ul style="list-style-type: none"><li>Intel® HD Graphics, shared memory</li><li>1* eDP (Max Resolution: 4096x2304@60Hz)</li><li>1* LVDS (Max Resolution: 1920x1200@60Hz)</li><li>1* HDMI 1.4 (Max Resolution: 4096x2160@30Hz)</li><li>1* DP (Max Resolution: 4096x2304@60Hz)</li><li>Support Triple Displays</li></ul>
<b>Ethernet</b>	<b>Audio</b>
<ul style="list-style-type: none"><li>1* Intel i219LM GbE</li><li>1* Intel i225V 2.5GbE</li></ul>	<ul style="list-style-type: none"><li>6 channel HD audio: Realtek ALC888S</li><li>3W AMP speaker</li></ul>
<b>SATA</b>	<b>Rear I/O</b>
1* SATAIII	<ul style="list-style-type: none"><li>4* USB3.1(Gen2)</li><li>1* USB3.1(Gen2) Type C</li><li>1* DP</li><li>1* HDMI</li><li>2* RJ45</li><li>Line-Out</li><li>DC-IN (9-24V)</li></ul>
<b>Internal Connector</b>	<b>Watchdog Timer</b>
<ul style="list-style-type: none"><li>1* USB3.1 (Gen2) Vertical connector</li><li>3* USB 2.0</li><li>1* PS/2</li><li>1* LVDS / Inverter (selection w/eDP)</li><li>1* eDP (selection w/LVDS)</li><li>1* RS232/422/485</li><li>5* RS232</li><li>1* SATAIII</li><li>1* GPIO (8 bit)</li><li>1* Chassis intrusion</li><li>1* Audio Header</li><li>1* I2C</li><li>1* AT mode</li><li>Support onboard TPM2.0</li></ul>	<ul style="list-style-type: none"><li>From Super I/O to drag RESETCON#</li><li>256 segments (10sec ~ 255min)</li></ul>
<b>Power</b>	<b>Compliance</b>
DC-IN 9-24V - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready	CE, FCC, LVD, RoHS, REACH
<b>Temperature</b>	<b>Warranty</b>
<ul style="list-style-type: none"><li>Operating: 0°C ~ 60°C</li><li>Storage: -20°C ~ 85°C</li></ul>	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
-----	JNF835V Series M/B	G01-PW4PS-2S-323F	SATA Power cable
G01-COM-H2M20-1F	COM cable	G01-SATA3-BL-1F	SATA cable