



JNF835F-5205U

Intel® Comet Lake-U Series SoC Processor, Support DDR4 up to 32GB, Multiple COM port, Dual LAN

1. Intel® Comet Lake 5205U (Dual Core, 1.9GHz) SoC Processor (TDP 15W)
2. 2* DDR4 2400MHz SO-DIMM up to 32GB
3. 2* 10/100/1000 Base-TX Ethernet Ports
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.1, 3* USB2.0 (1 Vertical type connector)
6. 1* M.2 M-key (2242/2280) SATA interface, 1* M.2 E-key (2230 support PCIe/CNVi)
7. 1* SATA III (6Gb/s)
8. Support onboard TPM 2.0 (option)



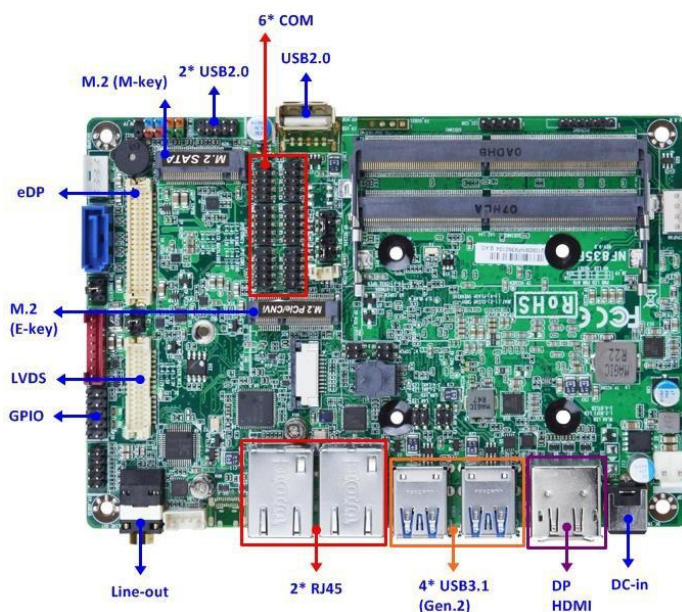
Overview

The JETWAY JNF835F-5205U is 3.5" form factor board adopts the Intel® Comet Lake 5205U SoC Processors. The board supports two SO-DIMM DDR4 2400MHz memory, up to 32GB. Featuring the integrated Intel® Gigabit Ethernet controller, the JNF835F-5205U offers two 10/100/1000Base-TX Ethernet devices for network transmission. One SATAIII (6Gb/s) interface and one M.2 M-key offer storage devices. Four USB3.1 Gen.1 ports, 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 JNF835F-5205U 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, JNF835F-5205U is suitable for Digital Signage, Industrial PCs, Factory Automation, IOT Solution applications.

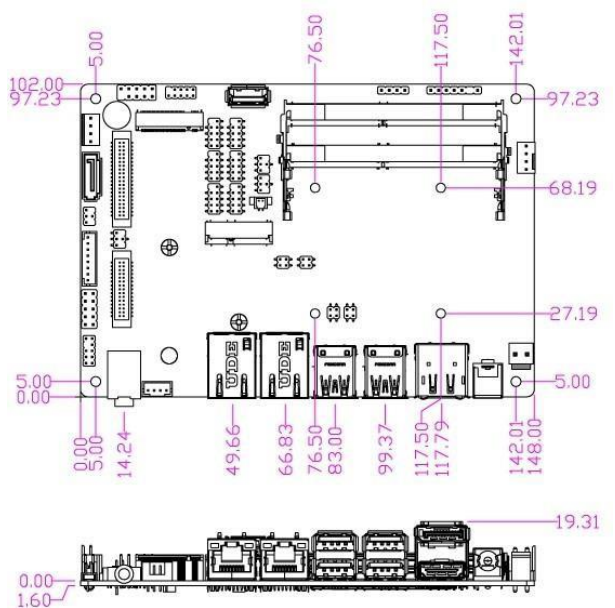
Application

Digital Signage / Industrial PCs / Factory Automation /Retail Solution

I/O Diagram



Mechanical Drawings (Unit = mm)



Specifications

Model

JNF835F-5205U

Processor System

- Intel® Comet Lake 5205U (Dual core, 1.9GHz) SoC Processor (TDP 15W)
- AMI Flash ROM BIOS

Memory

2* SO-DIMM DDR4 2400MHz Dual CH SDRAM non-ECC up to 32GB

Ethernet

- 1* i219LM GbE
- 1* i211AT GbE

Storage

- 1* SATAIII
- 1* M.2 M-key (2242/2280) Support SATA interface

Internal Connector

- 1* USB2.0 Vertical conn
- 2* USB 2.0
- 1* PS/2
- 1* LVDS / Inverter (selection w/eDP)
- 1* eDP (selection w/LVDS)
- 1* RS232/422/485
- 5* RS232
- 1* SATAIII
- 1* GPIO (8 bit)
- 1* Chassis intrusion
- 1* Audio Header
- 1* SMBUS
- 1* AT mode
- Support onboard TPM2.0(option)

Power

DC-IN 9-24V

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

Temperature

- Operating: 0°C ~ 60°C
- Storage: -20°C ~ 85°C
- Humidity: 10% ~ 90% RH @40°C (non-condensing)

Form Factor

3.5" (5.8-in * 4.0-in, 148 * 102mm)

Expansion Slot

- M.2 E-key (2230) Support PCIe/CNVi

Graphics

- Intel® HD Graphics, shared memory
- 1* eDP (Max Resolution: 4096x2304@60Hz)
- 1* LVDS (Max Resolution: 1920x1200@60Hz)
- 1* HDMI 1.4 (Max Resolution: 4096x2160@30Hz)
- 1* DP (Max Resolution: 4096x2304@60Hz)
- Support Triple Displays

Audio

- 6 channel HD audio: Realtek ALC662VD
- 3W AMP speaker

Rear I/O

- 4* USB3.1(Gen1)
- 1* DP
- 1* HDMI
- 2* Ethernet
- Line-out
- DC-in (9-24V)

Watchdog Timer

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

Compliance

CE, FCC, LVD, RoHS, REACH

Warranty

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 |
|------------------|-------------------|-------------------|------------------|
| ----- | JNF835F-5205U M/B | G01-PW4PS-2S-323F | SATA Power cable |
| G01-COM-H2M20-1F | COM cable | G01-SATA3-BL-1F | SATA cable |