

JNF796F-H310

Intel® 8th/9th Generation Intel® Core™ i7/ i5 /i3, Pentium® LGA1151 Socket Processor, H310 Chipset, Max. 65W TDP

1. Intel® 8/9th LGA1151 Socket Processor (Max. 65W TDP)
2. 2* DDR4 2400/2666MHz SO-DIMM up to 64GB
3. 1* HDMI, 1* DP, 1* VGA, 1* LVDS
4. 2* GbE, 4* RS232, 2* RS232/422/485, 4* USB3.1 (Gen.1), 2* USB2.0
5. 1* PCIe x16, 1* M.2 M-key 2242/2280 (SATA/PCIex4) support NVMe, 1* M.2 E-key 2230 (PCIex1/USB2.0) support CNVi, 3* SATAIII
6. Support onboard TPM 2.0 (option)



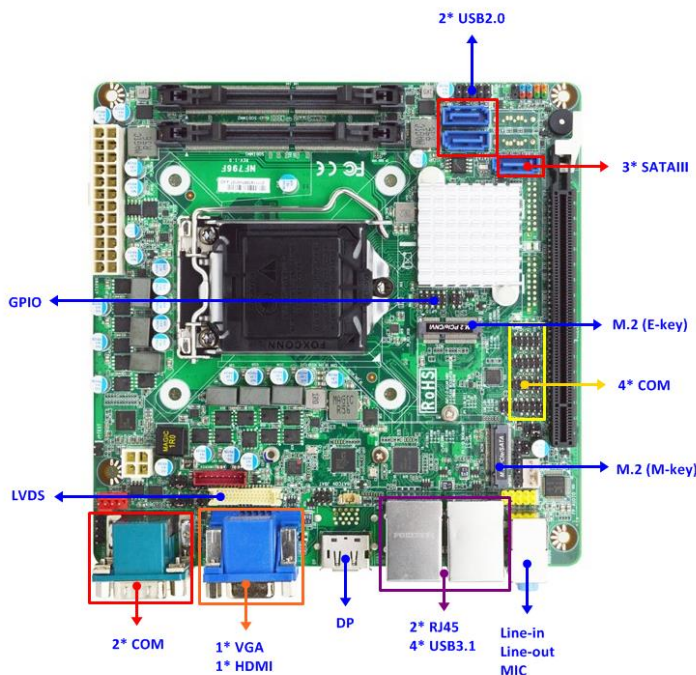
Overview

The JETWAY JNF796F-H310 is Mini-ITX form factor board adopts the Intel® 8th/9th generation Core i7/i5/i3, Pentium and Celeron Processor. The board supports two SO-DIMM DDR4 2400/2666MHz memory, up to 64GB. Featuring the integrated Intel® Gigabit Ethernet controller, the JNF796F-H310 offers two 10/100/1000Base-TX Ethernet devices for network transmission. Three SATAIII (6Gb/s) interface and one M.2 M-key 2242/2280 (SATA/PCIex4) support NVMe offer storage devices. One M.2 E-key 2230 (PCIex1/USB2.0) support CNVi, four USB3.1 Gen.1 ports, two USB2.0 ports and six COM port provide versatile expansion. The PCIe16 slot can support Jetway riser card for different expansion. The JNF796F-H310 offers one HDMI1.4 port, one DP1.4 port, one VGA port and one 24-bits Dual CH LVDS which can support 2 independent displays. Because of the above features, JNF796F-H310 is suitable for Digital Signage, Industrial PCs, Factory Automation, Public Sector, Digital Security and Surveillance applications.

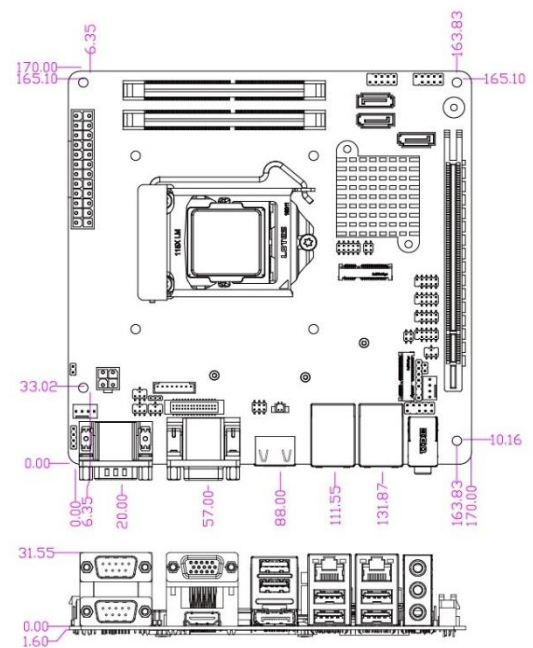
Application

Digital Signage / Industrial PCs / Factory Automation / Public Sector / Digital Security / Surveillance

I/O Diagram



Mechanical Drawings (Unit = mm)



Specifications

Model

JNF796F-H310

Processor System

- Intel® 8/9th LGA 1151 Socket Core i7/i5/i3/Pentium/Celeron Processor (Max. 65W TDP)
- Intel H310 Express chipset
- AMI 128Mb Flash ROM BIOS

Memory

2* Dual CH DDR4 2400/2666MHz SDRAM SO-DIMM up to 64GB

Ethernet

- 1* Intel i219LM GbE
- 1* Intel i211AT GbE

Rear I/O

- 1* VGA
- 1* HDMI
- 1* DP
- 2* RJ45
- 4* USB3.1 (Gen. 1)
- Line-in, Line-out, MIC
- 2* RS232/422/485

Audio

6 channel HD audio: Realtek ALC662VD

Power

ATX PWR (4+24 pin), 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
- 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

Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)

Expansion Slot

- 1* M.2 E-key 2230 (PCIex1/USB2.0) support CNVi
- 1* PCIex16 slot

Graphics

- Intel® HD Graphics, shared memory
- 1* VGA (Max Resolution: 1920 x 1200@60Hz)
- 1* LVDS (Max Resolution: 1920 x 1200@60Hz)
- 1* HDMI 1.4 (Max Resolution: 4096 x 2160@30Hz)
- 1* DP (Max Resolution: 4096 x 2304@60Hz)
- Support Triple Displays

Storage

- 3* SATAIII (6Gb/s)
- 1* M.2 M-key 2242/2280 (SATA/PCIex4) support NVMe

Internal Connector

- 2* USB 2.0
- 1* PS/2
- 1* LVDS / Inverter
- 4* COM
- 3* SATAIII
- 1* M.2 E-key (2230)
- 1* M.2 M-key (2242/2280)
- 1* GPIO (8 bit)
- 1* Chassis intrusion
- 1* Audio Header
- 1* SMBUS
- 1* AT mode
- Support onboard TPM2.0 (option)

Watchdog Timer

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

Compliance

CE, FCC, LVD, RoHS, REACH

OS Support

Windows 10, Linux

Accessories

Parts Number	Description	Parts Number	Description
-----	JNF796F-H310 M/B	G01-COM-H2M20-1F	COM cable
F04-MB-073-F	JNF796 I/O shield	G01-SATA3-BL-1F	SATAIII cable