

JNF796-Q370

Mini-ITX Embedded Motherboard, 8th Generation Intel® Core™ i7/ i5 /i3, Pentium® LGA1151 Socket Processor, Max. 65W TDPs

1. Intel® 8th LGA1151 Socket Processor (Max. 65W TDP)
2. 2 * DDR4 2400/2666MHz SO-DIMM up to 64GB
3. 2 * 10/100/1000 Base-TX Ethernet Ports
4. 1 * HDMI, 1 * DP, 1 * VGA, 1 * 24-bits Dual CH LVDS
5. 6 * COM (COM1/2 support RS232/422/485), 4 * USB3.1 Gen.2, 6 * USB3.1 Gen.1 & 2 * USB2.0
6. 1 * PCIe x16 slot, 1 * mSATA (full size, share with Mini PCIe), 1 * Mini PCIe slot (half size), 1 * SIM card slot
7. 5 * SATA III (6Gb/s) support RAID 0, 1, 5, 10
8. Support onboard TPM 2.0



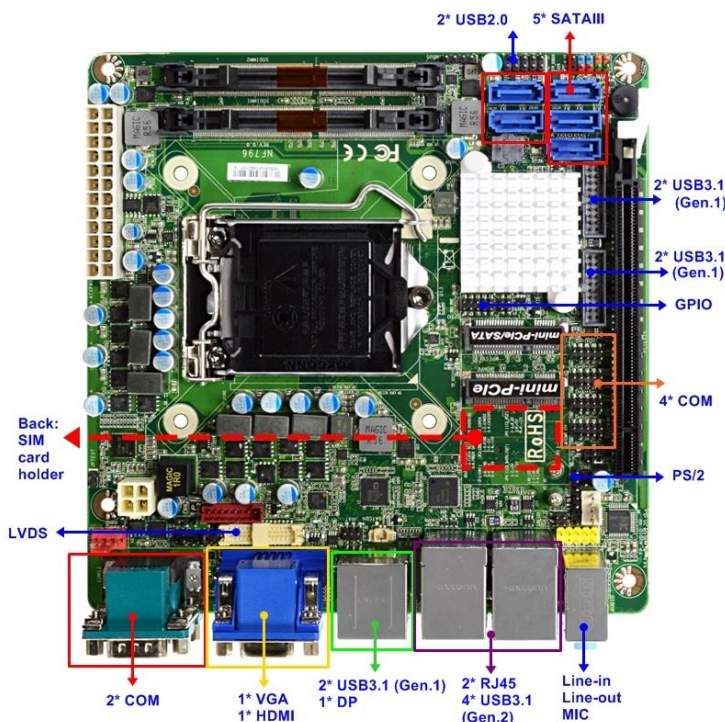
Overview

The JETWAY JNF796-Q370 is Mini-ITX form factor board adopts the Intel® 8th 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 JNF796 offers two 10/100/1000Base-TX Ethernet devices for network transmission. Five SATAIII (6Gb/s) interface and one mSATA offer storage devices. One Mini PCIe interface, four USB3.1 Gen.2 ports, six 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 JNF796 offers one HDMI1.4 port, one DP1.4 port, one VGA port and one 24-bits Dual CH LVDS which can support 3 independent displays. Because of the above features, JNF796 is suitable for Digital Signage, Industrial PCs, Factory Automation, Public Sector, Digital Security and Surveillance applications.

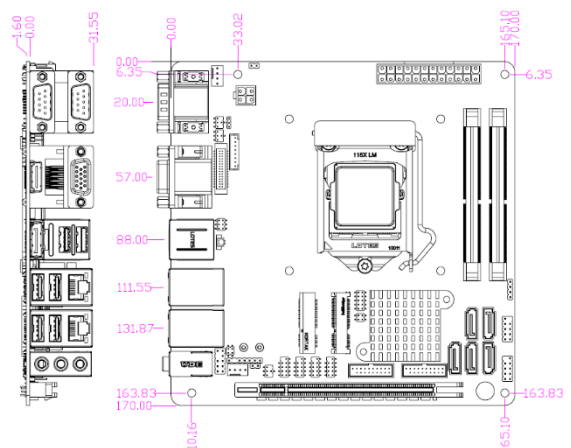
Application

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

I/O Diagram



Mechanical Drawings (Unit = mm)



Specifications

Model	Form Factor
JNF796-Q370	Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)
Processor System	Expansion Slot
<ul style="list-style-type: none">Intel® 8th LGA 1151 Socket Core i7/i5/i3/Pentium/Celeron Processor (Max. 65W TDP)Intel Q370 Express chipsetAMI 128Mb Flash ROM BIOS	<ul style="list-style-type: none">2* Mini PCIe (1* half size, 1* full size share with mSATA)1* mSATA (full size, share with Mini PCIe)1* PCIe16 slot, Support NVMe1* SIM card slot
Memory	Graphics
2* Dual CH non-ECC DDR4 2400/2666MHz SDRAM SO-DIMM up to 64GB	<ul style="list-style-type: none">Intel® HD Graphics, shared memory1* VGA (Max Resolution: 1920x1200@60Hz)1* LVDS (Max Resolution: 1920x1200@60Hz)1* HDMI 1.4 (Max Resolution: 4096x2160@30Hz)1* DP (Max Resolution: 4096x2304@60Hz)Support Triple Displays
Ethernet	Audio
1 * Intel i219LM & 1 * Intel i211AT GbE	6 channel HD audio: Realtek ALC662VD
SATA	Rear I/O
5* SATAIII support RAID 0, 1, 5, 10	<ul style="list-style-type: none">1* VGA1* HDMI1* DP2* RJ45 Ethernet4* USB 3.1 (Gen. 2) & 2* USB3.1 (Gen. 1)Line-in, Line-out, MIC2* COM (COM 1/2 support RS232/422/485)
Internal Connector	Watchdog Timer
<ul style="list-style-type: none">4* USB3.1 (Gen. 1), 2* USB 2.01* PS/21* LVDS / Inverter4* COM5* SATAIII1* SIM card slot2* Mini PCIe (1* half size, 1* full size share with mSATA)1* mSATA (full size share with mPCIe)1* GPIO (8 bit)1* Chassis intrusion1* Audio Header1* SMBUS1* AT modeSupport onboard TPM2.0	<ul style="list-style-type: none">From Super I/O to drag RESETCON#256 segments (10sec ~ 255min)
Power	Compliance
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	CE, FCC, LVD, RoHS, REACH
Temperature	OS Support
<ul style="list-style-type: none">Operating: 0°C ~ 60°CStorage: -20°C ~ 85°C	Windows 10
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
-----	JNF796 M/B	G02-DVD32-A1-WF	CD Driver
F04-MB-073-F	JNF796 I/O shield	G01-SATA3-BL-1F	SATAIII cable
G03-NF796-F	IPC JNF796 User's Manual	G01-COM-H2M20-1F	COM cable