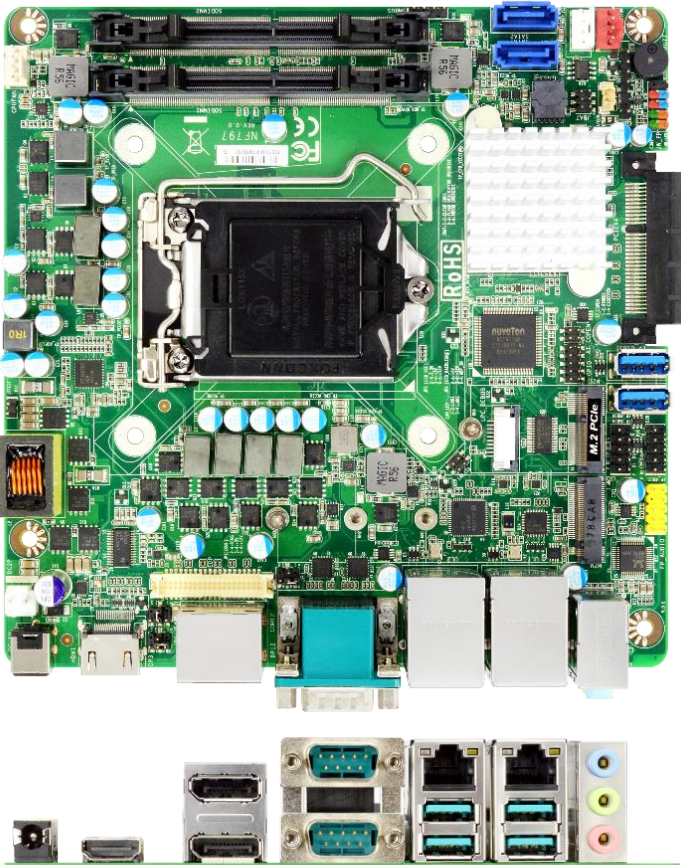


## JNF797-Q370

Mini-ITX Embedded Motherboard, Intel® 8th Generation Core™ i7/ i5 /i3, Pentium® LGA1151 Socket Processor, , 9~36V DC-in Power



### Overview



The JETWAY JNF797-Q370 is Mini-ITX form factor board adopts the Intel® 8<sup>th</sup> generation Core i7/i5/i3, Pentium and Celeron Processor. The board supports two SO-DIMM DDR4 2400/2666 MHz memory, up to 64GB. Featuring the integrated Intel® Gigabit Ethernet controller, the JNF797 offers two 10/100/1000Base-TX Ethernet devices for network transmission. Two SATAIII (6Gb/s) interface support RAID 0, 1 offer storage devices. One PCIe x4 interface, one M.2 (E-key 2230), four USB3.1 Gen.2 ports, two COM ports provide versatile expansion. The JNF797 offers one HDMI1.4 port (option with DP1.4), two DP1.4 port and one eDP which can support 3 independent displays. JNF797 have power on board feature that could be more convenient of use condition. Because of the above features, JNF797 is suitable for Digital Signage, Industrial PCs, Factory Automation, Public Sector and Digital Security applications.

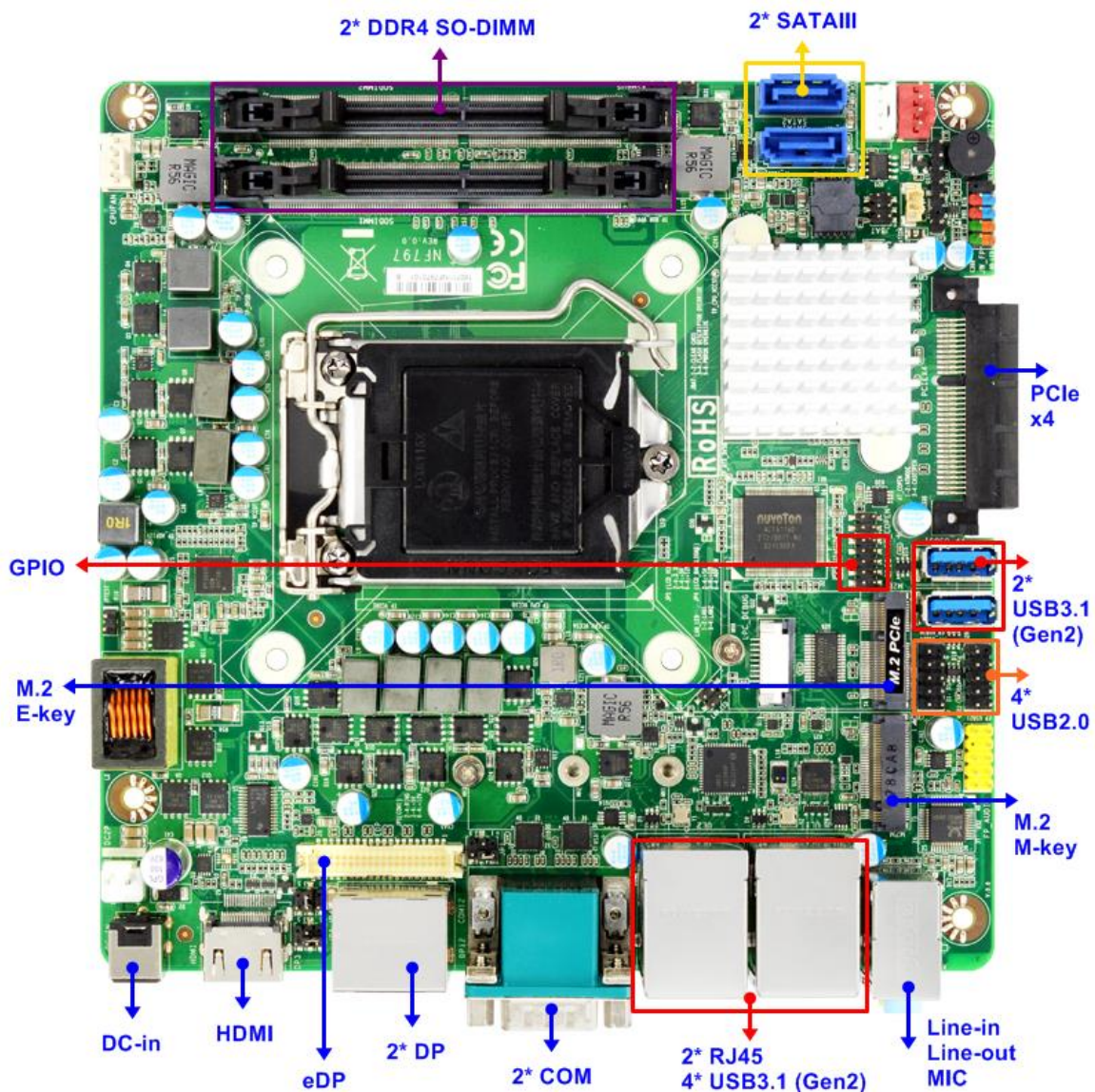
## Features

1. Intel® 8th LGA 1151 Socket Core  
i7/i5/i3/Pentium/Celeron 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 (option with DP), 2 \* DP, 1 \* eDP
5. 2 \* COM (RS232/422/485), 6 \* USB3.1 Gen.2, 4 \* USB2.0
6. 1 \* PCIe x4 slot, 1 \* M.2 (M-Key 2242/2260/2280, support NVMe), 1 \* M.2 (E-key 2230)
7. 2 \* SATA III (6Gb/s) support RAID 0, 1
8. Support onboard TPM 2.0 (optional)
9. 9~36V DC-in Power Solution

## Application

- Digital Signage
- Industrial PCs
- Factory Automation
- Public Sector
- Digital Security

## Internal Diagram





## Specifications

<b>Model</b>	<b>JNF797-Q370</b>
<b>Form Factor</b>	
Dimensions	- Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)
<b>Processor System</b>	
CPU	- Intel® 8th LGA 1151 Socket Core i7/i5/i3/Pentium/Celeron Processor (Max. 65W TDP)
Core Number	- (by CPU)
Max Speed	- (by CPU)
L2 Cache	- (by CPU)
Chipset	- Intel Q370 Express chipset
BIOS	- AMI 128Mb Flash ROM
<b>Expansion Slot</b>	
PCIe	- 1 (PCIex4 side slot)
M.2	- 1 (PCIex4 with SATA interface, M-Key support NVMe, 2242/2260/2280) - 1 (PCIe interface, E-key 2230)
<b>Memory</b>	
Technology	- Dual CH non-ECC DDR4 2400/2666MHz SDRAM
Max.	- 64GB
Socket	- 2 * SO-DIMM
<b>Graphics</b>	
Controller	- Intel® HD Graphics
VRAM	- Shared Memory
eDP	- 1 (Max. Resolution: 4096x2304@60Hz)
HDMI 1.4	- 1 (default, option with DP) (Max. Resolution: 4096x2160@30Hz)
DisplayPort	- 2 (Max. Resolution: 4096x2304@60Hz)
Multi Display	- Triple Displays
<b>Ethernet</b>	
Ethernet	- 10/100/1000 Mbps
Controller	- 1 * Intel i219LM & 1 * Intel i211AT GbE
Connector	- 2 * RJ45
<b>Audio</b>	
CODEC	- HD Audio: Realtek ALC662VD
Channel	- 6 Channel (Line-out, Line-in, MIC)
<b>SATA</b>	

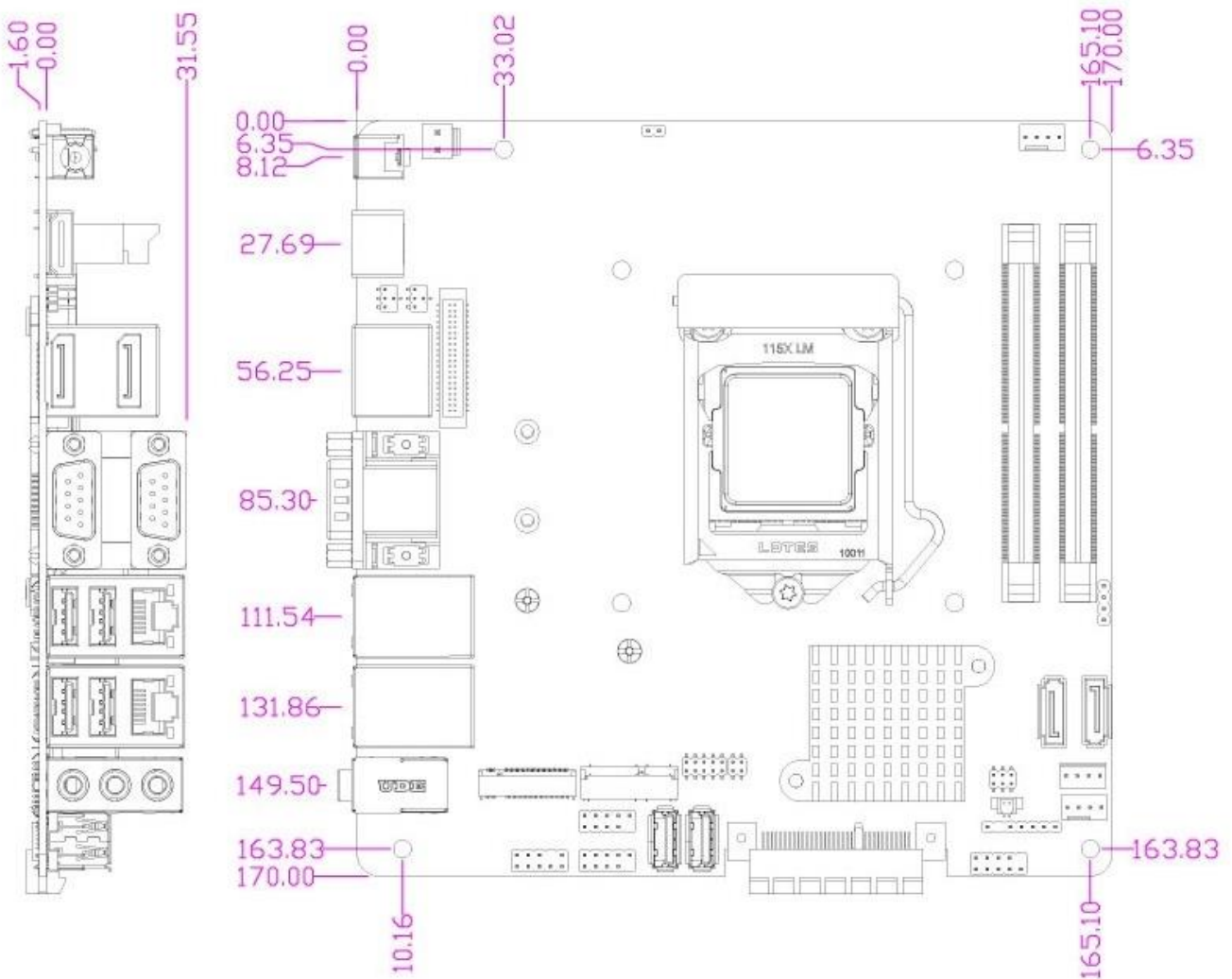
Max Data Transfer Rate	- 2 * SATAIII support RAID 0, 1
<b>Rear I/O</b>	
HDMI	- 1 (default, option with DP)
DisplayPort	- 2
Ethernet	- 2
USB	- 4 * USB 3.1 (Gen. 2)
Audio	- 3 (Line-in, Line-out, MIC)
Serial	- 2 (COM1/2 support RS232/422/485)
DC-input	- 1
<b>Internal Connector</b>	
USB	- 2 * USB3.1 (Gen. 2), 4 * USB 2.0
PS/2	- 1
eDP	- 1
SATA	- 2 * SATAIII
M.2	- 1 (M-Key support NVMe, 2242/2260/2280) - 1 (E-key 2230)
GPIO	- 1 (8 bit)
Chassis intrusion	- 1
SMBUS	- 1
AT mode	- 1
TPM	- Yes (onboard TPM 2.0, optional)
<b>Watchdog Timer</b>	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments (10sec ~ 255min)
<b>Power Requirements</b>	
Input PWR	- 9 ~ 36V DC in
Power On	AT/ATX Supported - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
<b>Certifications</b>	
Certifications	- CE, FCC, LVD, RoHS, REACH
<b>Environment</b>	
Temperature	- Operating: 0°C ~ 60°C
	- Storage: -20°C ~ 85°C
<b>Warranty</b>	
Warranty	- 2 Years Limited Warranty

\*Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

## Accessories

Part Number	Description
	JNF797 M/B
F04-MB-074-F	I/O shield
G01-SATA3-BL-1F	SATAIII cable

## Mechanical Drawings (Unit = mm)



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