

## JNF692 Series

### 6 LAN Ports Networking Appliance Motherboard with Intel® Apollo Lake series SoC Processor



**JNF692G6-335/420**



**JNF692G6-335B1/420B1**

### Product Introduction



The JETWAY JNF692 Series adopts the Intel® Apollo Lake series SoC processor. The system memory features one 204-pin DDR3L 1866MHz SODIMM Up to 8 GB. It equipped with six Gigabit Ethernet LAN ports (support up to 2 pairs ByPass GbE option) and suitable for networking environment. Intel® Apollo Lake series processor support AES NI which is a new encryption instructions to improves on the AES algorithm and accelerates the encryption of data. NF692 also support TPM feature to secure customers' data (JETWAY Mini PCIe TPM card supported).

In addition, it offers flexible expansion with network products and features one Mini PCIe slots, two USB 3.0 port, and one RS232 console port. Expansion opportunities are available with 1 Mini PCIe slot and 1 SIM card holder enabling the addition of Wi-Fi, 3G, 4G LTE for multiple connectivity. In addition, an internal Mini-SATA slot and SATA III connector for a 2.5" device provides storage selection. The console port deploys console re-direction that increases the network security via remote control. NF692 equip with TVS, voltage, current and ESD protection. All of these designs provide for a more user-friendly solution.

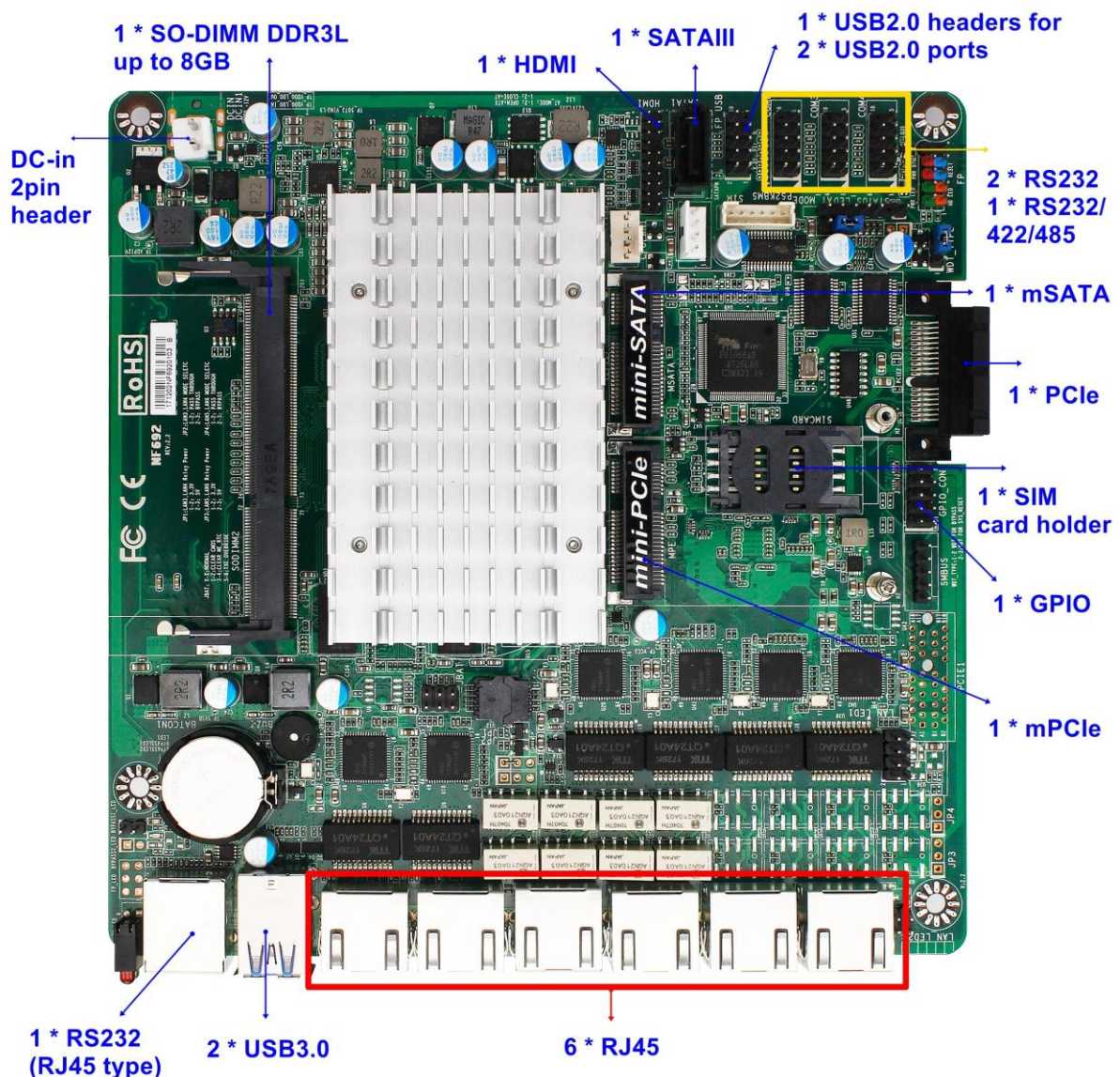
## Features

1. Intel® Apollo Lake series SoC Processor.  
Default is N3350/N4200
2. 1 \* 204-pin DDR3L 1866MHz SODIMM Up to 8 GB
3. 6\* 10/100/1000 Base-TX Ethernet Ports  
(support up to 2 pairs ByPass GbE option)
4. Support Intel AES NI and TPM (option) to secure customers' data
5. 1 \* RS232 Console, 2 \* USB3.0 & 2 \* USB2.0,  
1 \* HDMI
6. 1\* Mini PCIe Slots (full size), 1\* mSATA (full size),  
1 \* SIM card holder
7. 12V DC-in power

## Application

- IDP/IPS
- Firewall
- Load Balancing
- Bandwidth Manager
- Web Filter
- Anti-Spam/Virus
- Network Access Control

## Internal Diagram



## Specifications

Model	JNF692G6-335/420	JNF692G6-335B1/420B1
<b>Form Factor</b>		
Dimensions	- Thin Mini-ITX (6.7-in * 6.7-in, 170 * 170mm)	
<b>Processor System</b>		
CPU	- Intel® Apollo Lake SoC Processor	
Core Number	- (By CPU)	
Max Speed	- (By CPU)	
L2 Cache	- (By CPU)	
Chipset	- SoC	
BIOS	- AMI 128Mb Flash ROM	
<b>Expansion Slot</b>		
Mini-PCIe	- 1 (full size)	
mSATA	- 1 (full size)	
PCIe	- x1 (horizontal)	
SIM card holder	- 1	
<b>Memory</b>		
Technology	- DDR3L 1866MHz SDRAM	
Max.	- 8GB (SO-DIMM)	
Socket	- 1 * SO-DIMM	
<b>Graphics</b>		
Controller	- Intel® HD Graphics	
VRAM	- Shared Memory	
VGA	- 0	
DVI-D	- 0	
LVDS	- 0	
HDMI	- 1 (header connector, Max. Resolution: 3840 * 2160@30Hz)	
MultiDisplay	- No	
<b>Ethernet</b>		
Ethernet	- 10/100/1000 Mbps	
Controller	- PCIe GbE LAN: Intel i211AT	
Connector	- 6 * RJ45	- 6 * RJ45 (1 pair support ByPass GbE)
<b>Audio</b>		
CODEC	- N/A	
Channel	- N/A	
<b>SATA</b>		
Max Data Transfer Rate	- 1 * SATAIII (6.0Gb/s) and 1 * mSATA (full size)	

RAID	- No
<b>Rear I/O</b>	
VGA	- 0
DVI-D	- 0
HDMI	- 0
Ethernet	- 6 (1 pair support ByPass GbE)
USB	- 2 * USB 3.0
Audio	- 0
Serial	- 1 * RS232 with RJ45 type connector
LED	- 2 (POWER, HDD)
DC-input	- 0
<b>Internal Connector</b>	
HDMI	- 1
USB	- 2 * USB 2.0
LVDS / inverter	- 0
Serial	- 3 * RS232 (COM2 support RS232/422/485)
SATA	- 1
mPCIe	- 1 (full size)
mSATA	- 1 (full size)
M.2	- 0
SIM card holder	- 1
Chassis intrusion	- 0
PS/2	- 1
GPIO	- 1 (4in/4 out)
SMBUS/ I2C	- 1
Audio Header	- 0
Audio Amplifier Header	- 0
AT mode	- 1
<b>Watchdog Timer</b>	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments, 0,1,2...255sec
<b>Power Requirements</b>	
Input PWR	- +12V DC-in PWR header
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, RoHS, REACH

## Environment

Temperature	- Operating: 0°C – 60°C
	- Storage: -20°C – 85°C

\*For further information please visit the website at <http://www.jetwayipc.com>

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

## Optional Accessories

Part Number	Description
	JNF692 M/B
	JNF692 I/O shield
G03-NF692-F	IPC JNF692 User's Manual
G02-DVD22-A13-WF	CD Driver
G01-SATA3-BL-1F	SATA cable
G01-PW4PS-2S-323F	SATA Power cable
G01-2X10A-HDMI-F	HDMI cable

## Mechanical Drawings (Unit = mm)

