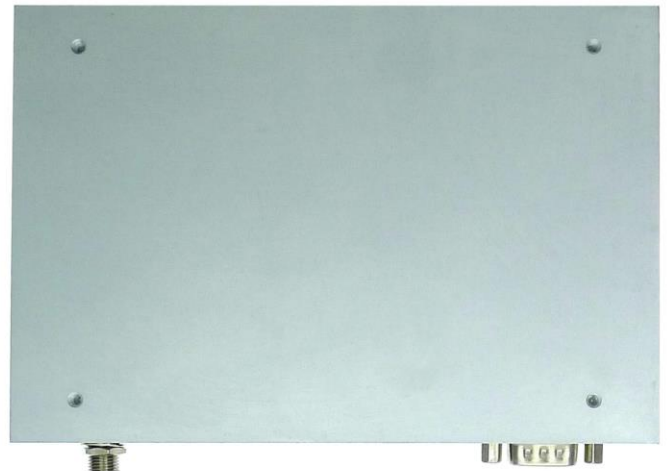
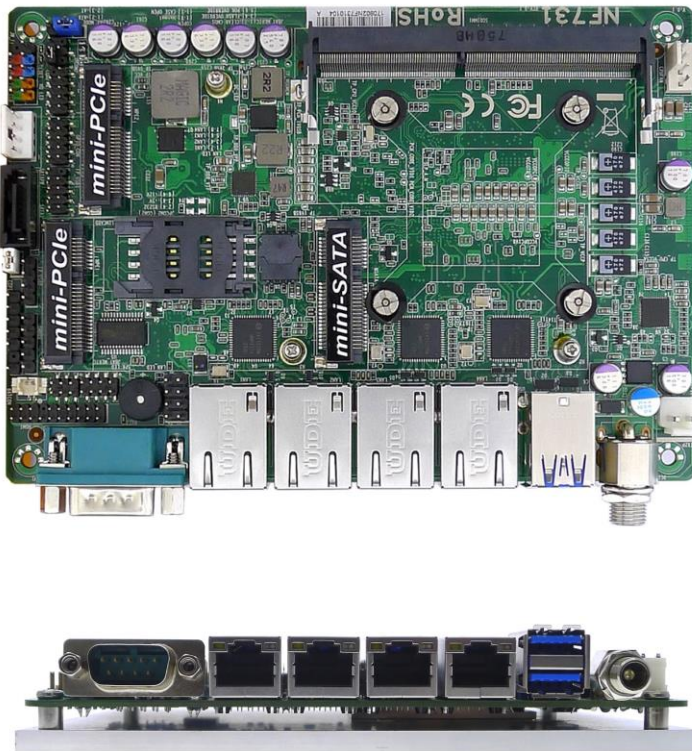


## JNF731 Series

### 4 LAN Ports Networking Appliance Motherboard with Intel® Skylake/Kabylake U-series SoC Processor



## Product Introduction

The JETWAY JNF731 Series adopts the Intel® Skylake/Kabylake U-series SoC processor. The system memory features one 260-pin DDR4 2133MHz SODIMM Up to 16 GB. It is equipped with four Gigabit Ethernet LAN ports and suitable for networking environment. Intel® Skylake/Kabylake U-series processor support AES NI which is a new encryption instruction to improve on the AES algorithm and accelerates the encryption of data. JNF731 also supports TPM feature to secure customers' data.

In addition, it offers flexible expansion with network products and features two Mini PCIe slots, two USB 3.0 ports, and one RS232 console port. Expansion opportunities are available with 2 Mini PCIe slots 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. NF731 is equipped with TVS, voltage, current, and ESD protection. All of these designs provide for a more user-friendly solution.

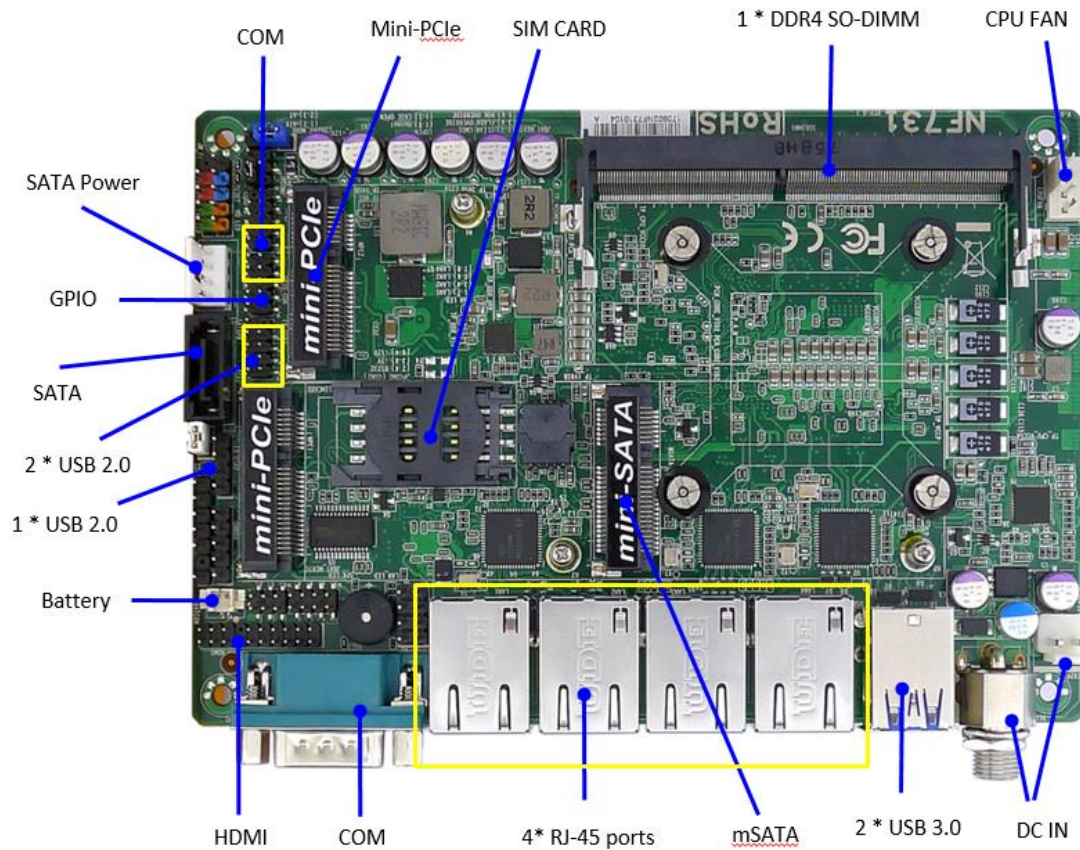
## Features

1. Intel® Skylake/Kabylake U-series Processor (TDP 15W).
2. 1 \* 260-pin DDR4 2133MHz SODIMM Up to 16 GB
3. 4\* 10/100/1000 Base-TX Ethernet Ports
4. Support Intel AES NI and TPM (option) to secure customers' data
5. 1 \* RS232 Console, 2 \* USB3.0 & 3 \* USB2.0, 1 \* HDMI
6. 2\* Mini PCIe Slots (1\* full size & 1\* half 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

Model	- JNF731-3855 (Default) - JNF731-3965
Part Number	- JNF731-3855 (Default) - JNF731-3965

### Form Factor

Dimensions	- 3.5" (5.8-in * 4.0-in, 148 * 102mm)
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### Processor System

CPU	- Intel® Skylake/Kabylake U-series Processor (TDP 15W) Default: 3855U
Core Number	- (by CPU)
Max Speed	- (by CPU)
L2 Cache	- (by CPU)
Chipset	- SoC
BIOS	- AMI Flash ROM

### Expansion Slot

Mini-PCIe	- 1 (full size) & 1 (half size)
mSATA	- 1 (SATA + USB signal)
SIM Card Holder	- 1

### Memory

Technology	- DDR4 2133MHz SDRAM
Max.	- 16GB
Socket	- 1 * SO-DIMM

### Graphics

Controller	- Intel® HD Graphics
VRAM	- Shared Memory
HDMI 1.4	- 1 (Max. 4096 x 2304@24Hz resolution)
MultiDisplay	- No

### Ethernet

Ethernet	- 10/100/1000 Mbps
Controller	- 4 * Intel Gigabit LAN (3 * i211AT & 1 * i219LM)
Connector	- 4 * RJ45

### Audio

CODEC	- No
Channel	- No

### SATA

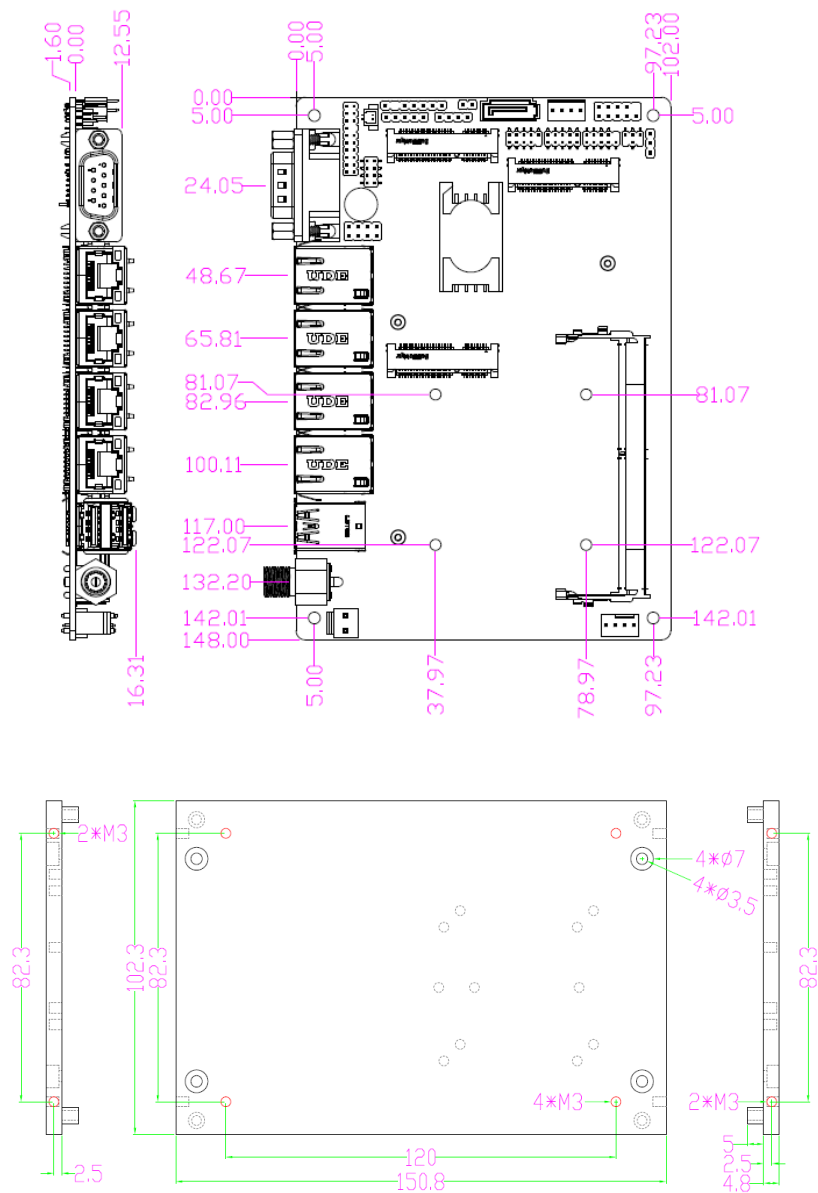
Max Data Transfer Rate	- 1 * SATAIII (6.0Gb/s) & 1 * mSATA
<b>Rear I/O</b>	
Ethernet	- 4
USB	- 2 * USB 3.0
Serial / Parallel	- 1 / 0
DC-input	- 1
<b>Internal Connector</b>	
USB	- 3 * USB 2.0
PS/2	- 1
HDMI	- 1
Serial	- 1 (RS232/422/485)
SATA	- 1 * SATAIII (6.0Gb/s)
mPCIe	- 1 (full size) & 1 (half size)
mSATA	- 1
GPIO	- 1 (8 bit)
Chassis intrusion	- 1
SMBUS/ I2C	- 1
AT mode	- 1
TPM Header	- 1 (on board option)
Others	- eMMC (option)
<b>Watchdog Timer</b>	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments (10sec ~ 255min)
<b>Power Requirements</b>	
Input PWR	- 12V 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, 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
	JNF731 Series M/B
G01-SATA3-BL-1F	SATA cable
G01-PW4PS-2S-322F	SATA Power cable
G01-2X10A-HDMI-F	HDMI cable
G01-COM-H2M22-1F	COM Cable

## Mechanical Drawings (Unit = mm)



M3 screws location for NF731 heatsink