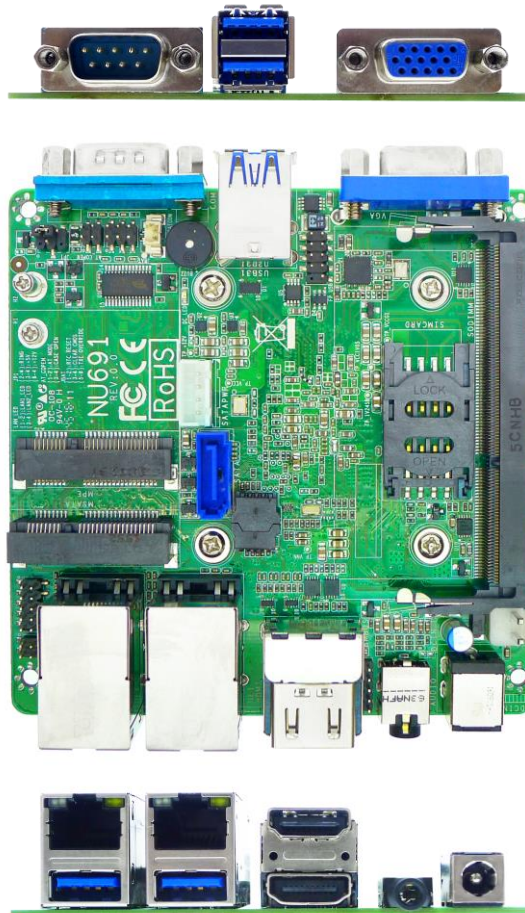


JNU691 Series

Intel® Apollo Lake Processor Motherboard support 3 Independent Display outputs (2 * HDMI Ports and 1 * VGA Port)



Product Introduction

The JETWAY JNU691 Series adopts the Intel® Apollo Lake SoC processor. The board has one 204-pin DDR3L 1866MHz SODIMM up to 8GB memory. JNU691 Series equipped with 2 * HDMI and 1 * VGA for IoT applications. Intel® Apollo Lake SoC processor support AES NI which is a new hardware encryption instructions to improves on the AES algorithm and accelerates the encryption of data. JNU691 also support TPM feature to secure customers' data.

In addition, it offers 6 * USB3.0/2.0 ports which can connect different peripherals, e.g. camera and sensor. It is flexible expansion via Mini PCIe slot, SIM card holder, and one RS232 port. An internal Mini-SATA slot and SATA III connector provide storage selection. In addition, JNU691 board size is 101*101mm and is a SubCompact, powerful and energy efficient NUC form factor board with reliable performance.

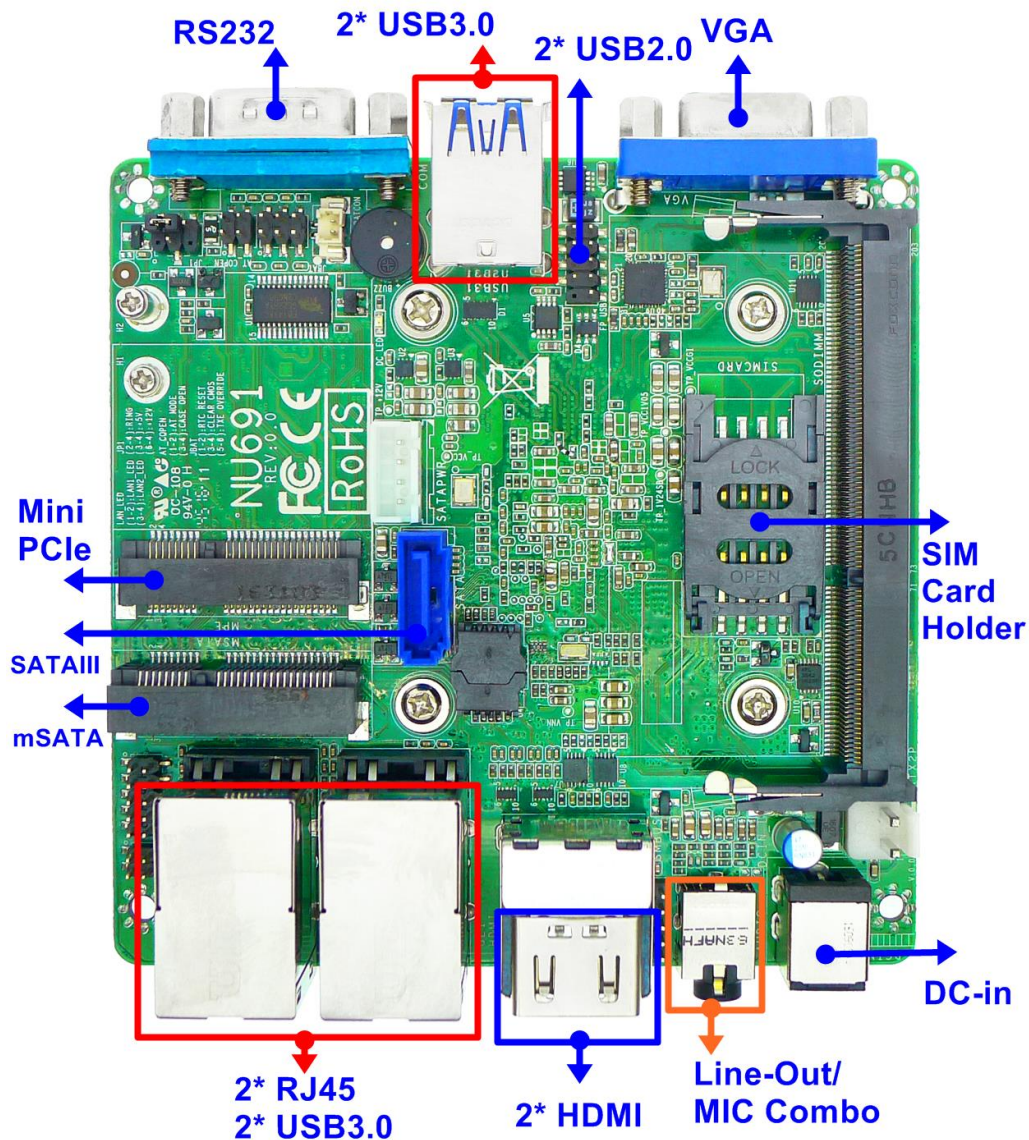
Functional characteristics

1. Intel® Apollo Lake SoC Processor.
2. 1 * 204-pin DDR3L 1866MHz SODIMM Up to 8 GB
3. 2 * 10/100/1000 Base-TX Ethernet Ports
4. Support Intel AES NI and TPM2.0 to secure customers' data
5. 4 * Ext USB3.0, 1 * Line-Out/MIC, 2 * HDMI, 1 * VGA
6. 1* full size mSATA, 1* half size Mini PCIe Slot, 1 * SIM card holder
7. 12V DC-in power

Application

- Digital Signage
- Cloud Applications
- IoT
- Industrial Automation

Internal Diagram



Specifications

Model		
Model	- JNU691-3350	- JNU691-3455
Form Factor		
Dimensions	- NUC (101 * 101mm)	
Processor System		
CPU	- Intel® Celeron N3350 Processor	- Intel® Pentium J3455 Processor
Core Number	- Dual Core	- Quad Core
Max Speed	- 2.4GHz	- 1.5GHz
L2 Cache	- 2MB	- 2MB
Chipset	- SoC	
BIOS	- AMI Flash ROM	
Expansion Slot		
PCI / PCIe	- 0 / 0	
Mini-PCIe	- 1 (half size)	
mSATA	- 1 (full size)	
M.2	- 0	
CF / CFast Card Socket	- 0 / 0	
SIM Card Holder	- 1	
Memory		
Technology	- DDR3L 1866MHz SDRAM	
Max.	- 8GB	
Socket	- 1 * SO-DIMM	
Graphics		
Controller	- Intel® HD Graphics	
VRAM	- Shared Memory	
VGA	- 1 (max. 1920×1200@60Hz resolution)	
LVDS	- 0	
eDP 1.3	- 0	
HDMI 1.4	- 2 (max. 3840x2160@30Hz resolution)	
DVI-D	- 0	
DisplayPort	- 0	
Multi Display	- Triple Displays	
Ethernet		
Ethernet	- 10/100/1000 Mbps	
Controller	- 2 * Realtek RTL8111H GbE	
Connector	- 2 * RJ45	

Audio	
CODEC	- HD Audio : Realtek ALC662VD
Channel	- 2 Channels
SATA	
Max Data Transfer Rate	- 1 * SATAIII (6.0Gb/s) & 1 * mSATA
External I/O	
VGA	- 1 (front)
DVI-D	- 0
HDMI	- 2 (rear)
DisplayPort	- 0
Ethernet	- 2 (rear)
USB	- 4 * USB 3.0 (2 * front & 2 * rear)
Audio	- 1 (Line-Out/MIC Combo)
Serial	- 1 * RS232/422/485 (front)
DC-input	- 1 (rear)
Internal Connector	
USB	- 2 * USB 2.0
PS/2	- 0
LVDS / inverter	- 0
eDP	- 0
HDMI	- 0
Serial	- 0
SATA	- 1 * SATAIII (6.0Gb/s)
mPCIe	- 1 (half size)
mSATA	- 1 (full size)
M.2	- 0
GPIO	- 1 (8 bit)
Chassis intrusion	- 1
Audio Header	- 0
SMBUS/ I2C	- 0
AT mode	- 1
TPM	- 1 (TPM2.0 on board)
Others	- 0
Watchdog Timer	
Output	- From Super I/O to drag RESETCON#
Interval	- 256 segments (10sec ~ 255min)
Power Requirements	

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
Certifications	
Certifications	- CE, FCC, RoHS, REACH
Environment	
Temperature	- Operating: 0°C ~ 60°C - Storage: -20°C ~ 85°C
Warranty	
Warranty	- 2 Years Limited Warranty
Packing	
Packing	- Net Weight: - Gross Weight: - Color Box dimension:

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

Accessories

Part Number	Description
	JNU691 M/B
G01-SATAL-RD30-F	SATA Cable L-Type
G01-XH4-SA15-35F	SATA Cable

Mechanical Drawings (Unit = mm)

