

JNU691 Series

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

Features

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



intel. FC CE RoHS COMPLIANT

Overview

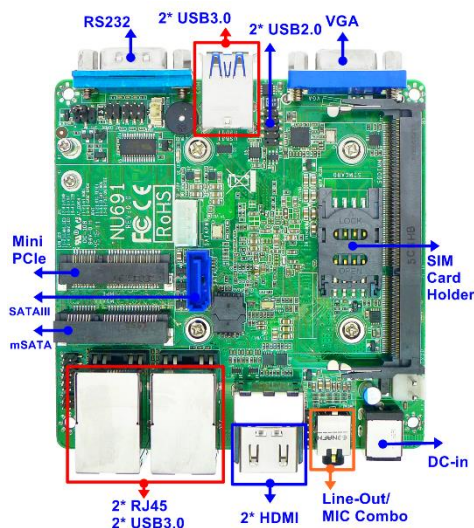
The JETWAY JNU691 Series adopts the Intel® Apollo Lake SoC processor. The board has one 204-pin DDR3L 1866MHz SODIMM up to 8GB memory. JNU691 Series equipped with 2 * HDMI and 1 * VGA for IoT applications. Intel® Apollo Lake SoC processor support AES NI which is a new hardware encryption instructions 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 RS232/422/485 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.

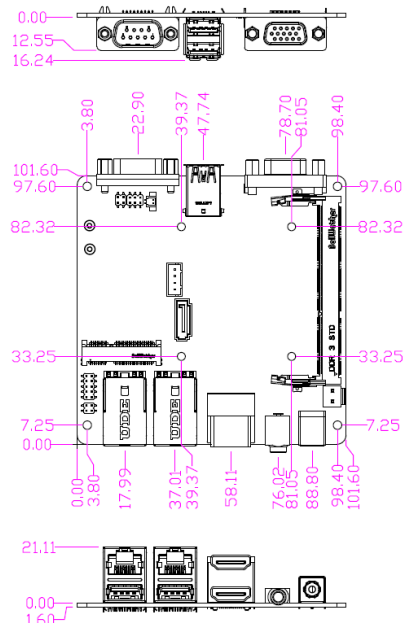
Application

Digital Signage / IOT Solution / Industrial Automation

I/O Diagram



Mechanical Drawings (Unit=mm)



Specifications

Model JNU691-3455 (Default) JNU691-3350	Form Factor NUC (101 * 101mm)
Processor System <ul style="list-style-type: none">• Intel® Celeron Processor• AMI Flash ROM BIOS	Memory 1* DDR3L 1866MHz SDRAM up to 8GB
Storage <ul style="list-style-type: none">• 1* SATAIII (6 Gb/s)• 1* mSATA (Full size)	Expansion <ul style="list-style-type: none">• 1* Mini-PCIe (Half size)• 1* SIM card slot
Ethernet 2* Realtek RTL8111H GbE	Graphics <ul style="list-style-type: none">• Intel® HD Graphics, shared memory• 1* VGA (Max Resolution: 1920x1080@60Hz)• 2* HDMI 1.4 (Max Resolution: 3840x2160@30Hz)• Support Triple Displays
Audio HD audio: Realtek ALC888S	Watchdog Timer <ul style="list-style-type: none">• From Super I/O to drag RESETCON#• 256 segments (10sec ~ 255min)
Internal I/O <ul style="list-style-type: none">• 2* USB2.0• 1* SATAIII (6 Gb/s)• 1* Chassis intrusion• 1* GPIO• 1* SMBUS• 1* AT mode• 1* TPM2.0	External I/O Front: <ul style="list-style-type: none">• 1* VGA• 2* USB3.0• 1* COM support RS232/RS422/RS485 Rear: <ul style="list-style-type: none">• 2* HDMI• 2* USB3.0• 2* RJ45• 1* Line-out/MIC combo• 12V DC-in
Power 12V DC-in PWR - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready	Compliance CE, FCC, RoHS, REACH
Temperature <ul style="list-style-type: none">• Operating Temperature: 0 ~ 60° C• Storage Temperature: -20 ~ 85° C• Humidity: 10% ~ 90% RH @40°C (non-condensing)	OS Support Windows, Linux
Warranty 2 Years limited warranty	Packing <ul style="list-style-type: none">• Net Weight:• Gross Weight:• Color Box dimension:

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

Standard Accessories

Part Number	Description
JNU691 Series	JNU691-3455 M/B
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G01-SATAL-RD30-F	1* SATA Cable L-Type
G01-XH4-SA15-35F	1* SATA Cable
F07-FNJNU93-F	1* NUC 3pin FAN