

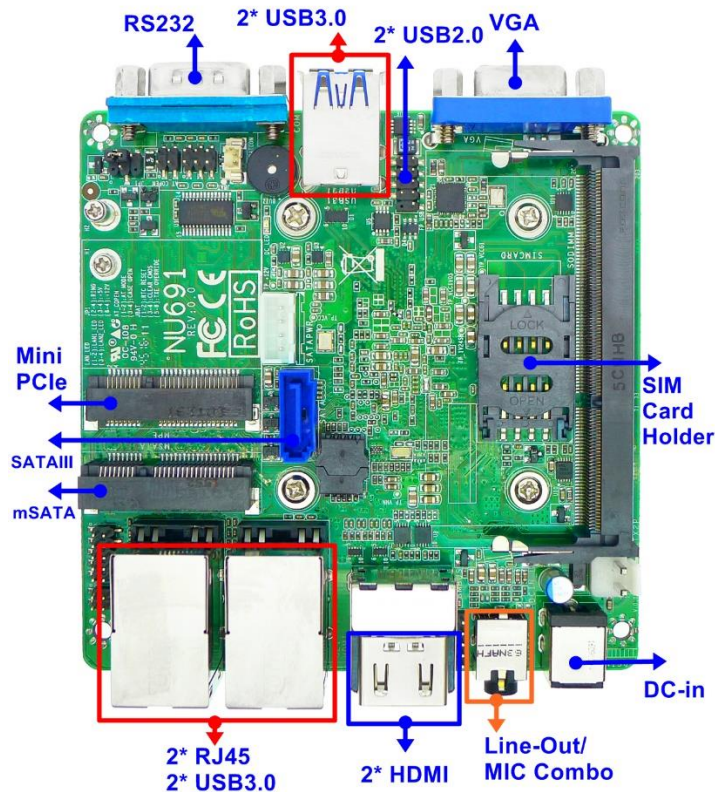
# NU691

## NUC Industrial Motherboard for Fanless Systems Intel Apollo Lake / 2HDMI / 2LAN / COM / 12V



### Features

1. Long-Life Embedded Class Industrial Motherboard with Planned Lifecycle Through Q3'2031
2. CPU Mounted on Bottom of Motherboard for Easy Integration into Fanless Systems
3. Intel Celeron J3455 Quad-Core
4. Up to 8GB DDR3L-1866 SODIMM Memory Total
5. Supports up to 3 Displays, 2 \* HDMI 4K @30Hz, VGA
6. 1 \* SATA3 6Gb/s Port, 1 \* Full-size mSATA Slot
7. 1 \* Half-size Mini-PCIE Slot, SIM Card Holder
8. 2 \* Realtek Gigabit LAN, HD Audio, Optional TPM 2.0
9. 1 \* External RS232 Serial Port
10. Line-out/Mic Combo Jack
11. Watchdog Timer, 4 \* USB 3.0, 2 \* USB 2.0
12. 12V DC-In Jack or Alternative 2-pin Internal Power
13. NUC Form Factor (101mm x 101mm)



<b>Model / Series</b>	<ul style="list-style-type: none"> <li>■ NU691</li> </ul>
<b>Part No</b>	<ul style="list-style-type: none"> <li>■ JNU691-3455 (no TPM), JNU691T2-3455 (TPM 2.0)</li> </ul>
<b>Processor</b>	<ul style="list-style-type: none"> <li>■ Intel Celeron J3455 SoC, 1.5GHz - 2.3GHz burst, Quad-Core, 10W TDP</li> <li>■ *Ships with CPU heatsink/fan for bench testing</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>■ SoC</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>■ Intel HD Graphics 500: 250-750MHz</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>■ 1 * DDR3L-1866 SODIMM slot, up to 8GB total</li> </ul>
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>■ 1 * Half-size mini-PCI Express slot, SIM Card Holder</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>■ 1 * SATA3 6Gb/s port</li> <li>■ 1 * Full-size mSATA slot</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>■ Realtek ALC662 HD Audio</li> </ul>
<b>Network</b>	<ul style="list-style-type: none"> <li>■ 2 * Realtek RTL8111H Gigabit LAN</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>■ Support ACPI S3, AHCI, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Optional TPM 2.0</li> </ul>
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>■ 2 * USB 3.0 ports</li> <li>■ 2 * RJ-45 ports</li> <li>■ 2 * HDMI 1.4 ports (3840 x 2160 @30Hz)</li> <li>■ Line-out/Mic combo jack</li> <li>■ 12V DC-in jack (1-pin 2.5mm ID / 5.5mm OD)</li> </ul>
<b>Front Panel I/O</b>	<ul style="list-style-type: none"> <li>■ 1 * Serial port (RS232/422/485)</li> <li>■ 2 * USB 3.0 ports</li> <li>■ VGA</li> </ul>
<b>Internal I/O</b>	<ul style="list-style-type: none"> <li>■ 1 * USB header for 2 * USB 2.0 ports</li> <li>■ AT/ATX Power switch mode, 8bit GPIO, SMBUS header, Chassis intrusion header</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>■ AMI Flash ROM</li> </ul>
<b>Box Contents</b>	<ul style="list-style-type: none"> <li>■ NU691 Motherboard</li> </ul>
<b>Certifications</b>	<ul style="list-style-type: none"> <li>■ CE, FCC, RoHS, ErP</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>■ Operating Temperature 0~40 ° C, Storage Temperature -20-85 ° C</li> </ul>
<b>Form Factor</b>	<ul style="list-style-type: none"> <li>■ NUC Form Factor (101mm x 101mm)</li> </ul>
<b>Warranty</b>	<ul style="list-style-type: none"> <li>■ 2 Years Limited Warranty</li> </ul>

\*Specifications subject to change without notice, not responsible for typographical errors.



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