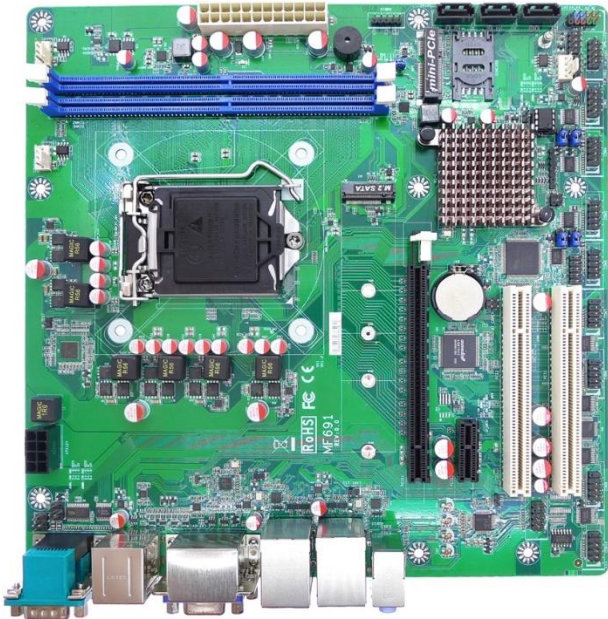


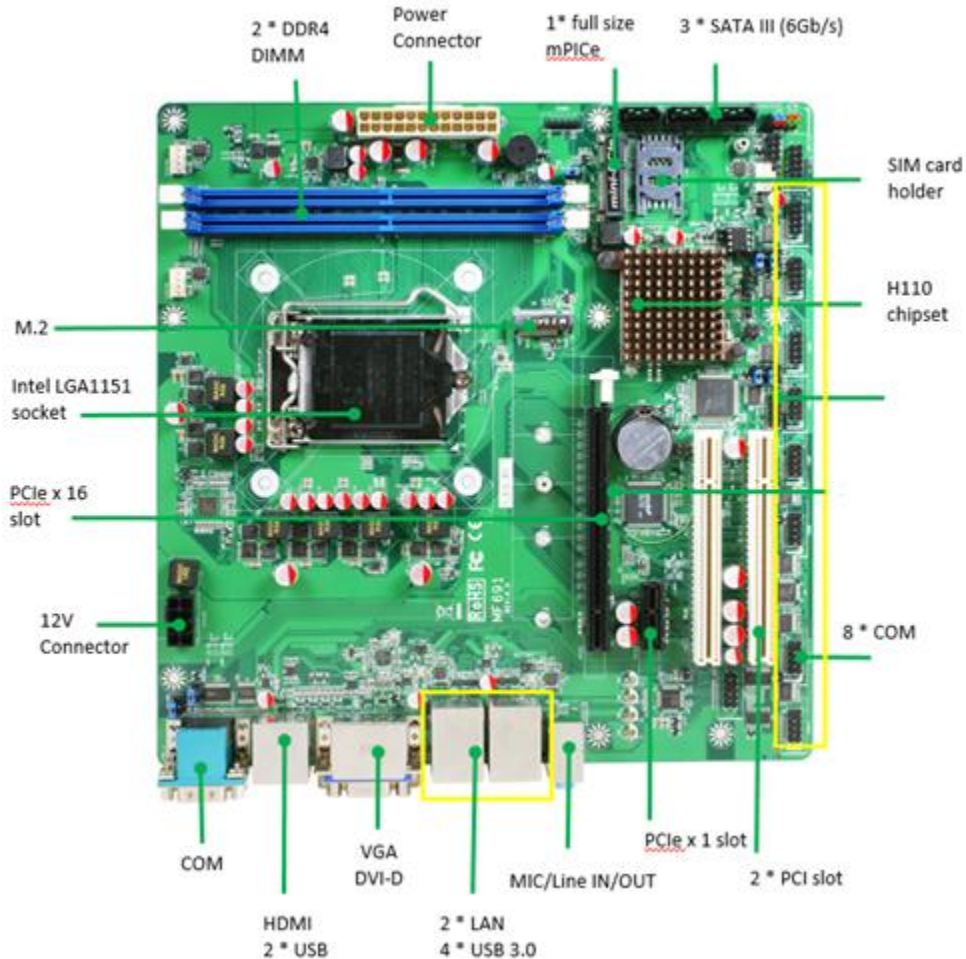
# NMF691

## Micro ATX Industrial Motherboard LGA1151 / 2 GbE / HDMI, DVI, VGA / M.2 SATA



### Features

1. Industrial Embedded Motherboard with Planned Lifecycle Through Q3'2030
2. Supports Intel 6th & 7th Gen Processor, LGA1151, Skylake/Kaby Lake Platform, Intel H110 Express
3. Supports DDR4-2133 DIMM up to 32GB Total
4. 2 \* Gigabit LAN, up to 2 Displays: HDMI, DVI-D, VGA
5. 3 \* SATA3 6Gb/s Ports, M.2 SATA 2242/60/80/110
6. 1 \* Full-size mini-PCIe slot, SIM Card Holder
7. 1 \* PCIe x16, 1 \* PCIe x1, 2 \* PCI Slots
8. 4 \* USB 3.0, 5 \* USB 2.0, HD Audio
9. 10\* Serial Ports, Watchdog Timer, AT/ATX Power Mode
10. ATX Power, Compatible with Windows 7, 8.1, 10, Linux
11. (onboard TPM IC optional)
12. Micro ATX Form Factor (244mm x 244mm)



<b>Model / Series</b>	<ul style="list-style-type: none"> <li>NMF691</li> </ul>
<b>Part No</b>	<ul style="list-style-type: none"> <li>JNMF691-H110</li> <li>JNMF691T2-H110 (TPM 2.0)</li> </ul>
<b>Processor</b>	<ul style="list-style-type: none"> <li>Support 6th &amp; 7th Gen Intel Core i3, i5, i7 Processors, Socket LGA1151, Skylake/Kaby Lake</li> </ul>
<b>Chipset</b>	<ul style="list-style-type: none"> <li>Intel H110 Express</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>Intel HD Graphics in processor</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>2 * 288-pin DIMM slots supporting DDR4-2133 up to 32GB total</li> </ul>
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>1 * PCI Express 2.0 x16, 1 * PCI Express 2.0 x1, 2 * 32bit PCI</li> <li>1 * Full-size Mini-PCIE slot, SIM card holder</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>3 * SATA3 6Gb/s ports</li> <li>1 * M.2 SATA M-key, 2242/2260/2280/22110</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 RTL8111G Gigabit LAN</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>Support AHCI, ACPI S3, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Intel TPM 2.0 Trusted Computing</li> </ul>
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>4 * USB 3.0 ports, 2 * USB 2.0 ports</li> <li>2 * RJ-45 ports, 2 * Serial (1 * RS232, 1 * RS232/422/485)</li> <li>HDMI (4K @24Hz), DVI-D, VGA</li> <li>Line-out, Line-in, Microphone jacks</li> </ul>
<b>Internal I/O</b>	<ul style="list-style-type: none"> <li>2 * USB headers for 3 * USB 2.0 ports</li> <li>8 * Serial headers (8 * RS232), AT/ATX power switch mode</li> <li>Chassis Intrusion header, PS/2 KB/MS header, SMBUS header, 8bit GPIO</li> <li>24-pin ATX + 8-pin ATX_12V power power connectors</li> <li>(Option for onboard Nuvoton TPM v1.2 (NPCT620A) or v2.0 (NPCT650) hardware IC)</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>AMI 64MB Flash ROM</li> </ul>
<b>Box Contents</b>	<ul style="list-style-type: none"> <li>NMF691 Motherboard, SATA Cable, Serial Cable, I/O Shield</li> </ul>
<b>Certification</b>	<ul style="list-style-type: none"> <li>CE, FCC, RoHS, ErP/EuP, REACH</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Operating Temperature 0~60 ° C, Storage Temperature -20-85 ° C</li> </ul>
<b>Form Factor</b>	<ul style="list-style-type: none"> <li>Micro ATX Form Factor (244mm x 244mm)</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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