

# NF796V

## Mini-ITX Industrial Motherboard 2\*M.2 / 1 \* 1GbE + 1 \* 2.5GbE / ATXPWR



Q370/C246 Picture Shown Above



JNF796M-Q370



JNF796M-C246



JNF796M-H310

### Features

1. Industrial Embedded Motherboard with Planned Lifecycle Through Q3'2033
2. Supports 8th/9th Gen Intel Processors up to 65W, LGA1151, Coffee Lake, Intel Q370/C246/H310 Chipsets
3. Supports DDR4-2666 SODIMM up to 64GB Total
4. 1 \* Intel 1GbE + 1 \* Intel 2.5GbE
5. up to 3+ Displays DP, HDMI, VGA, LVDS
6. 5 \* SATA3 6Gb/s Supporting RAID† 0, 1, 5, 10, JBOD
7. M.2 SATA/PCIE 3.0 x4 NVME 2242/2280, HD Audio M.2 2230 for WIFI, PCIE x16 Expansion Slot
8. 4+ \* USB 3.1 Gen2, 6+ \* USB 3.1 Gen1, 2 \* USB 2.0
9. 6\* Serial Ports, Watchdog Timer, AT/ATX Power Switch Mode
10. 24+4-pin Power Connectors, GPIO, Chassis Intrusion
11. Optional Onboard TPM 2.0
12. Compatible with Windows 10 64bit, Windows 11, Linux
13. Mini-ITX Form Factor (170mm x 170mm)

† on Q370 and C246 models only

<b>Model / Series</b>	■ NF796V		
<b>Part No</b>	■ JNF796V-Q370 ■ JNF796V2-Q370 (TPM2)	■ JNF796V-C246 ■ JNF796V2-C246 (TPM2)	■ JNF796V-H310 ■ JNF796V2-H310 (TPM2)
<b>Processor</b>	■ Support 8th/9th Gen Intel Processors up to 65W, LGA1151 (300 series), Coffee Lake ■ C246 model supports Xeon E processors		
<b>Chipset</b>	■ Intel Q370	■ Intel C246	■ Intel H310
<b>Video</b>	■ Intel HD Graphics		
<b>Memory</b>	■ 2 * SO-DIMM slots for	■ 2 * SO-DIMM slots for	■ 2 * SO-DIMM slots for DDR4-

	DDR4-2666 Non-ECC up to 64GB total	DDR4-2666 ECC/Non-ECC up to 64GB total	2666 Non-ECC up to 64GB total
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>■ PCI Express 3.0 x16 slot (supports x8/x8 bifurcation)</li> <li>■ M.2 2230 E-key (for WIFI)</li> </ul>		<ul style="list-style-type: none"> <li>■ PCI Express 3.0 x16 slot</li> <li>■ M.2 2230 E-key (for WIFI)</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>■ 5 * SATA3 6Gb/s ports supporting RAID 0, 1, 5, 10, JBOD</li> </ul>		<ul style="list-style-type: none"> <li>■ 3 * SATA3 6Gb/s ports</li> </ul>
<b>Audio</b>	<ul style="list-style-type: none"> <li>■ Realtek HD audio</li> </ul>		
<b>Network</b>	<ul style="list-style-type: none"> <li>■ 1 * intel i225-V 2.5GbE + 1 * Intel i219-LM 1GbE</li> <li>■ Supports iAMT 12.0 &amp; vPRO (requires supported CPU)</li> </ul>		<ul style="list-style-type: none"> <li>■ 1 * intel i225-V 2.5GbE + 1 * Intel i219-LM 1GbE</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, Optional TPM 2.0</li> </ul>		
<b>Rear Panel I/O</b>	<ul style="list-style-type: none"> <li>■ 4 * USB 3.1 Gen2 (10Gb/s)</li> <li>■ 2 * USB 3.1 Gen1 (5Gb/s)</li> <li>■ 2 * RJ-45 ports, 2 * RS232/422/485</li> <li>■ DP 1.2 4K @60Hz</li> <li>■ HDMI 1.4 4K @30Hz</li> <li>■ VGA</li> <li>■ Line-in, Line-out, Mic</li> <li>■ Up to 3 Displays</li> </ul>		<ul style="list-style-type: none"> <li>■ 4 * USB 3.1 Gen1 (5Gb/s)</li> <li>■ 2 * RJ-45 ports</li> <li>■ 2 * RS232/422/485</li> <li>■ DP 1.2 4K @60Hz</li> <li>■ HDMI 1.4 4K @30Hz</li> <li>■ VGA</li> <li>■ Line-in, Line-out, Mic</li> <li>■ Up to 2 Displays</li> </ul>
<b>Internal I/O</b>	<ul style="list-style-type: none"> <li>■ 2 * headers for 4 * USB 3.1 Gen1</li> <li>■ 1 * header for 2 * USB 2.0</li> <li>■ 24-bit LVDS, AT/ATX switch mode</li> <li>■ 4 * Serial (PH=2.00, 4 * RS232)</li> <li>■ Chassis Intrusion, PS/2 KB/MS, SMBUS, 8bit GPIO</li> <li>■ 24-pin ATX + 4-pin 12V power connectors</li> </ul>		<ul style="list-style-type: none"> <li>■ 1 * header for 2 * USB 2.0</li> <li>■ 24-bit LVDS, AT/ATX switch mode</li> <li>■ 4 * Serial (PH=2.00, 4 * RS232)</li> <li>■ Chassis Intrusion, PS/2 KB/MS, SMBUS, 8bit GPIO</li> <li>■ 24-pin ATX + 4-pin 12V power connectors</li> </ul>
<b>BIOS</b>	<ul style="list-style-type: none"> <li>■ AMI UEFI fTPM Firmware with Intel PTT (TPM 2.0 Emulation)</li> </ul>		
<b>Box Contents</b>	<ul style="list-style-type: none"> <li>■ NF796V Motherboard, 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>■ Mini-ITX Form Factor (170mm x 170mm)</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. Overclocking not supported.



Jetway Computer Corporation  
Phone: 510-857-0130 Fax: 510-857-0138  
8058 Central Ave., Newark, CA 94560  
www.jetwaycomputer.com

