

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

Model / Series	■ NF796V		
Part No	■ JNF796V-Q370 ■ JNF796V2-Q370 (TPM2)	■ JNF796V-C246 ■ JNF796V2-C246 (TPM2)	■ JNF796V-H310 ■ JNF796V2-H310 (TPM2)
Processor	■ Support 8th/9th Gen Intel Processors up to 65W, LGA1151 (300 series), Coffee Lake ■ C246 model supports Xeon E processors		
Chipset	■ Intel Q370	■ Intel C246	■ Intel H310
Video	■ Intel HD Graphics		
Memory	■ 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
Expansion Slots	<ul style="list-style-type: none"> ■ PCI Express 3.0 x16 slot (supports x8/x8 bifurcation) ■ M.2 2230 E-key (for WIFI) 		<ul style="list-style-type: none"> ■ PCI Express 3.0 x16 slot ■ M.2 2230 E-key (for WIFI)
Storage	<ul style="list-style-type: none"> ■ 5 * SATA3 6Gb/s ports supporting RAID 0, 1, 5, 10, JBOD 		<ul style="list-style-type: none"> ■ 3 * SATA3 6Gb/s ports
Audio	<ul style="list-style-type: none"> ■ Realtek HD audio 		
Network	<ul style="list-style-type: none"> ■ 1 * intel i225/i226-V 2.5GbE ■ 1 * Intel i219-LM 1GbE (iAMT) 		<ul style="list-style-type: none"> ■ 1 * intel i225/i226-V 2.5GbE ■ 1 * Intel i219-LM 1GbE
Other Features	<ul style="list-style-type: none"> ■ Support AHCI, ACPI S3, CPU Smart FAN, Watchdog Timer 10-255 min/sec, Optional TPM 2.0 		
Rear Panel I/O	<ul style="list-style-type: none"> ■ 4 * USB 3.1 Gen2 (10Gb/s) ■ 2 * USB 3.1 Gen1 (5Gb/s) ■ 2 * RJ-45 ports, 2 * RS232/422/485 ■ DP 1.2 4K @60Hz ■ HDMI 1.4 4K @30Hz ■ VGA ■ Line-in, Line-out, Mic ■ Up to 3 Displays 		<ul style="list-style-type: none"> ■ 4 * USB 3.1 Gen1 (5Gb/s) ■ 2 * RJ-45 ports ■ 2 * RS232/422/485 ■ DP 1.2 4K @60Hz ■ HDMI 1.4 4K @30Hz ■ VGA ■ Line-in, Line-out, Mic ■ Up to 2 Displays
Internal I/O	<ul style="list-style-type: none"> ■ 2 * headers for 4 * USB 3.1 Gen1 ■ 1 * header for 2 * USB 2.0 ■ 24-bit LVDS, AT/ATX switch mode ■ 4 * Serial (PH=2.00, 4 * RS232) ■ Chassis Intrusion, PS/2 KB/MS, SMBUS, 8bit GPIO ■ 24-pin ATX + 4-pin 12V power connectors 		<ul style="list-style-type: none"> ■ 1 * header for 2 * USB 2.0 ■ 24-bit LVDS, AT/ATX switch mode ■ 4 * Serial (PH=2.00, 4 * RS232) ■ Chassis Intrusion, PS/2 KB/MS, SMBUS, 8bit GPIO ■ 24-pin ATX + 4-pin 12V power connectors
BIOS	<ul style="list-style-type: none"> ■ AMI UEFI fTPM Firmware with Intel PTT (TPM 2.0 Emulation) 		
Box Contents	<ul style="list-style-type: none"> ■ NF796V Motherboard, I/O Shield 		
Certification	<ul style="list-style-type: none"> ■ CE, FCC, RoHS, ErP/EuP, REACH 		
Temperature	<ul style="list-style-type: none"> ■ Operating Temperature 0 - 60° C, Storage Temperature -20 - 85° C 		
Form Factor	<ul style="list-style-type: none"> ■ Mini-ITX Form Factor (170mm x 170mm) 		
Warranty	<ul style="list-style-type: none"> ■ 2 Years Limited Warranty 		

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



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