

NF796M

Mini-ITX Industrial Motherboard / DDR4 2*M.2 / 2 Intel LAN / SATA3 RAID+ / ATXPWR



Q370/C246 Picture Shown

Features

1. Industrial Embedded Motherboard with Planned Lifecycle Through Q3'2033
2. Supports 8th/9th Gen Intel Core i3, i5, i7 Processors, LGA1151, Coffee Lake, Intel Q370/C246/H310 Chipsets
3. Supports DDR4-2400 SODIMM up to 32GB Total
4. 2 * Intel Gigabit LAN, up to 3[†] Displays DP, HDMI, VGA, LVDS
5. 5 * SATA3 6Gb/s Supporting RAID[†] 0, 1, 5, 10, JBOD
6. M.2 SATA/PCIE 3.0 x4 NVME 2242/2280, HD Audio
M.2 2230 for WIFI, PCIE x16 (supports x8/x8 bifurcation[†])
7. 4[†] * USB 3.1 Gen2, 6[†] * USB 3.1 Gen1, 2 * USB 2.0
8. 6* Serial Ports, Watchdog Timer, AT/ATX Power Switch Mode
9. 24+4-pin Power Connectors, GPIO, Chassis Intrusion
10. Optional Onboard TPM 2.0
11. Compatible with Windows 10 64bit, Linux
12. Mini-ITX Form Factor (170mm x 170mm)

[†] On Q370/C246 Models only



JNF796M-Q370



JNF796M-C246



JNF796M-H310

Model / Series	■ NF796M		
Part No	■ JNF796M-Q370 ■ JNF796M2-Q370 (TPM 2.0)	■ JNF796M-C246 ■ JNF796M2-C246 (TPM 2.0)	■ JNF796M-H310
Processor	■ Support 8th/9th Gen Intel Core i3, i5, i7 Processors, LGA1151 (300 series), Coffee Lake	■ Support 8th/9th Gen Intel Core i3, i5, i7, Xeon, LGA1151 (300 series), Coffee Lake	■ Support 8th/9th Gen Intel Core i3, i5, i7 Processors, LGA1151 (300 series), Coffee Lake
Chipset	■ Intel Q370	■ Intel C246	■ Intel H310

Video	■ Intel HD Graphics		
Memory	■ 2 * 260-pin SO-DIMM slots for DDR4-2400 up to 32GB total	■ 2 * 260-pin SO-DIMM slots for DDR4-2400 ECC/Non-ECC up to 32GB total	■ 2 * 260-pin SO-DIMM slots for DDR4-2400 up to 32GB total
Expansion Slots	■ PCI Express 3.0 x16 slot (supports x8/x8 bifurcation) ■ M.2 2230 E-key (for WIFI)		■ PCI Express 3.0 x16 slot ■ M.2 2230 E-key (WIFI)
Storage	■ 5 * SATA3 6Gb/s ports supporting RAID 0, 1, 5, 10, JBOD		■ 3 * SATA3 6Gb/s
Audio	■ Realtek ALC662 HD audio		
Network	■ 2 * Intel Gigabit LAN (1 * i211-AT, 1 * i219-LM supporting iAMT 12.0 & vPRO)		■ 2 * Intel Gigabit LAN (1 * i211-AT, 1 * i219-LM)
Other Features	■ 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"> ■ 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 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 ■ 4 * Serial (2.00mm pitch, 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 ■ 4 * RS232, Chassis Intrusion, PS/2 KB/MS, SMBUS, 8bit GPIO ■ 24-pin ATX + 4-pin 12V
BIOS	■ AMI 128Mb Flash ROM		
Box Contents	■ NF796M Motherboard, I/O Shield		
Certification	■ CE, FCC, RoHS, ErP/EuP, REACH		
Temperature	■ Operating Temperature 0~60 ° C, Storage Temperature -20-85 ° C		
Form Factor	■ Mini-ITX Form Factor (170mm x 170mm)		
Warranty	■ 2 Years Limited Warranty		

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



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