



Specifications

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| CPU Socket | LGA1151 |
| CPU | 9th/8th Gen Intel® Xeon® E / Core™ / Pentium® / Celeron® processors, up to 4.7GHz |
| PCH | MI998AF(E)-C246: Intel® C246 PCH MI998AF(E): Intel® Q370 PCH MI998EF(E): Intel® H310 PCH |
| Memory Types | 2x DDR4 SO-DIMM, Max. 32GB (supports ECC by CPU SKU) |
| BIOS | AMI |
| Watchdog Timer | 256 levels |
| H/W Monitor | Yes |
| Storage Device Interface | NVMe |
| Expansion Slots | 1x PCI-E (x16) |
| Mini Type Slots | 1x M.2 (E-key, type:2230) 1x M.2 (M-key, type:2280) |
| Graphics Controller | Intel® UHD Graphics P630 |
| Video Output | Supports, DVI-D, HDMI (1.4), DisplayPort(1.2), and eDP or 24-bit Dual channel LVDS |
| Ethernet | 1st LAN MI998AF-C246 & MI998AF: Intel® I219LM MI998EF: Intel® I219V 2nd LAN MI998AF-C246: Intel® I210AT MI998AF & MI998EF: Intel® I211AT |
| I/O Chip | Fintek F81964D-I |
| Serial Port | MI998AF(E)-C246: COM1 ~ COM2 (RS232/422/485) MI998AF(E): COM1 ~ COM2 (RS232/422/485) (Jumper-less selection) MI998EF(E): COM1 ~ COM2 (RS232) COM3 ~ COM4: RS232 |
| USB 2.0 | MI998AF-C246 / MI998AF: 2x USB2.0 MI998EF: 2x USB2.0 |
| USB 3.0/ 3.1 | MI998AF-C246 / MI998AF: 6x USB3.0 MI998EF: 4x USB3.0 |
| SATA | 4x SATA III |
| Audio | Intel® C246/ Q370/ H310 PCH-H built-in HD audio + Realtek ALC888S codec |
| TPM | TPM (2.0) |
| Others | Digital I/O (4-in/4-out); RAID, iAMT (11.6) or Eup/ErP |
| Dimensions (L x W) | 170mm x 170mm |
| Power Consumption | Intel® i7-8700, w/ DDR4-2400 8GB +12V: 6.36A; +5V: 1.46A; +5VSB: 0.07A; +3.3V: 0.37A |
| Operating Temperature | 0°C ~ 60°C (32°F ~ 140°F) |
| Storage Temperature | -20°C ~ 80°C (-4°F ~ 176°F) |
| Relative Humidity | 90% (non-condensing @60°C) |

Features

- 9th/8th Gen Intel® Xeon® E / Core™ / Pentium® / Celeron® processors, up to 4.7GHz
- 2x DDR4 SO-DIMM, Max. 32GB, ECC compatible
- Intel® Processor integrated graphics, supports DVI-D, HDMI, DisplayPort and 24-bit dual channel LVDS or eDP
- Dual Intel® Gigabit LAN
- 6x USB3.0, 2x USB2.0, 4x COM, 4x SATA III
- 1x PCI-E (x16), 2x M.2
- Watchdog timer, Digital I/O, iAMT (11.6), TPM (2.0)

Ordering Information

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|---------------|---|
| MI998AF-C246 | LGA1151 C246 Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, LVDS, Dual Gigabit LAN, RAID, iAMT(11.6), TPM(2.0) |
| MI998AFE-C246 | LGA1151 C246 Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, eDP, Dual Gigabit LAN, RAID, iAMT(11.6), TPM(2.0) |
| MI998AF | LGA1151 Q370 Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, LVDS, Dual Gigabit LAN, RAID, iAMT(11.6), TPM(2.0) |
| MI998AFE | LGA1151 Q370 Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, eDP, Dual Gigabit LAN, RAID, iAMT(11.6), TPM(2.0) |
| MI998EF | LGA1151 H310 Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, LVDS, Dual Gigabit LAN, TPM(2.0) |
| MI998EFE | LGA1151 H310 Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, eDP, Dual Gigabit LAN, TPM(2.0) |

Dimensions and Drawing

