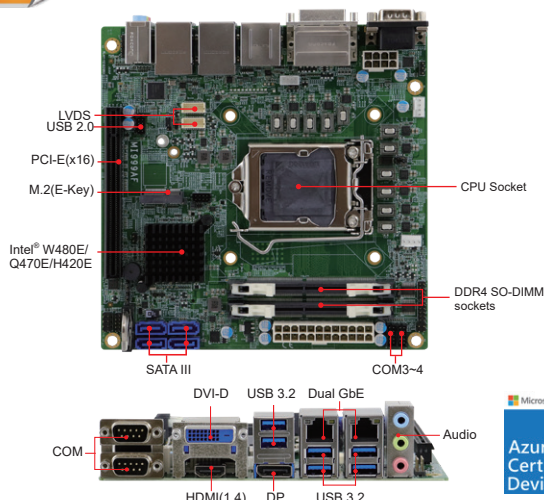
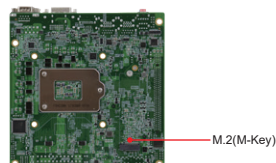


15 years  
Life Time

## Features

- 10th Gen Intel® Xeon® W / Core™ / Pentium® / Celeron® processors, up to 4.8GHz
- 2x DDR4 SO-DIMM, Max. 64GB, ECC compatible
- Intel® Processor integrated graphics, supports DVI-D, HDMI, DisplayPort and 24-bit dual channel LVDS or eDP
- Dual Intel® Gigabit LAN
- 6x USB 3.2, 4x USB 2.0, 4x COM, 4x SATA III
- 1x PCI-E (x16), 2x M.2 (E-key, M-Key)
- Watchdog timer, Digital I/O, iAMT (14), TPM (2.0)



## Specifications

|                          |                                                                                                                                                                   |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU Socket               | LGA1200                                                                                                                                                           |
| CPU                      | 10th Gen Intel® Xeon® W / Core™ / Pentium® / Celeron® processors, up to 4.8GHz                                                                                    |
| PCH                      | MI999AF-W: W480E<br>MI999AF-Q: Q470E<br>MI999EF-H: H420E                                                                                                          |
| Memory                   | 2x DDR4 SO-DIMM socket, Max 64GB (supports ECC by CPU SKU)                                                                                                        |
| BIOS                     | AMI                                                                                                                                                               |
| Watchdog Timer           | 256 levels                                                                                                                                                        |
| H/W Monitor              | Yes                                                                                                                                                               |
| Storage Device Interface | 1x M.2 (M2280) NVMe                                                                                                                                               |
| Expansion Slots          | 1x PCI-E (X16)                                                                                                                                                    |
| Mini Type Slots          | 1x M.2[E-key@2230], supports CNVi<br>1x M.2[M-key@2280], supports NVMe (for MI999AF-W/MI999AF-Q Series only)                                                      |
| Graphics Controller      | Intel® UHD Graphics 630                                                                                                                                           |
| Video Output             | Supports, DVI-D, HDMI (1.4b), DisplayPort (1.2), and eDP or 24-bit Dual channel LVDS                                                                              |
| Ethernet                 | 1st LAN<br>MI999AF-W/ MI999AF-Q: Intel® I219LM<br>MI999EF-H: Intel® I219V<br>2nd LAN<br>MI999AF-W: Intel® I210AT<br>MI999AF-Q/ MI999EF-H: Intel® I211AT or I210AT |
| I/O Chipset              | Fintek F81964D-I                                                                                                                                                  |
| Serial Port              | MI999AF-W/ MI999AF-Q: COM1 ~ COM2 (RS232/422/485)<br>MI999EF-H: COM1 ~ COM2 (RS232)<br>COM3 ~ COM4: RS232                                                         |
| USB 2.0                  | 4x USB 2.0 onboard                                                                                                                                                |
| USB 3.X                  | 6x USB 3.2 (Gen1, 5Gbps)                                                                                                                                          |
| Serial ATA               | 4x SATA III                                                                                                                                                       |
| Audio                    | Built-in HD audio + Realtek ALC888S codec                                                                                                                         |
| TPM                      | 2.0                                                                                                                                                               |
| Others                   | Digital I/O (4-in/4-out), RAID, iAMT (14) or Eup/ErP                                                                                                              |
| Dimensions (L x W)       | 170mm x 170mm                                                                                                                                                     |
| Power Consumption        | Intel® Core™ i5-10500E, 3.00GHz,<br>with 2x 4GB DDR4 2133<br>+12V: 6.08A<br>+5V: 1.19A<br>+5Vsb: 0.11A<br>+3.3V: 0.90A                                            |

|                       |                             |
|-----------------------|-----------------------------|
| Operating Temperature | 0°C ~ 60°C (32°F~140°F)     |
| Storage Temperature   | -20°C ~ 80°C (-4°F ~ 176°F) |
| Relative Humidity     | 95% (non-condensing @60°C)  |

## Ordering Information

|            |                                                                                                                  |
|------------|------------------------------------------------------------------------------------------------------------------|
| MI999AF-W  | LGA1200 W480E Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, LVDS, Dual Gigabit LAN, RAID, iAMT(14), TPM(2.0) |
| MI999AFE-W | LGA1200 W480E Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, eDP, Dual Gigabit LAN, RAID, iAMT(14), TPM(2.0)  |
| MI999AF-Q  | LGA1200 Q470E Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, LVDS, Dual Gigabit LAN, RAID, iAMT(14), TPM(2.0) |
| MI999AFE-Q | LGA1200 Q470E Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, eDP, Dual Gigabit LAN, RAID, iAMT(14), TPM(2.0)  |
| MI999EF-H  | LGA1200 H420E Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, LVDS, Dual Gigabit LAN, EuP/ErP, TPM(2.0)        |
| MI999EFE-H | LGA1200 H420E Mini-ITX motherboard w/ DVI-D, HDMI, DisplayPort, eDP, Dual Gigabit LAN, EuP/ErP, TPM(2.0)         |

## Dimensions and Drawing

