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Datasheet

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MI999

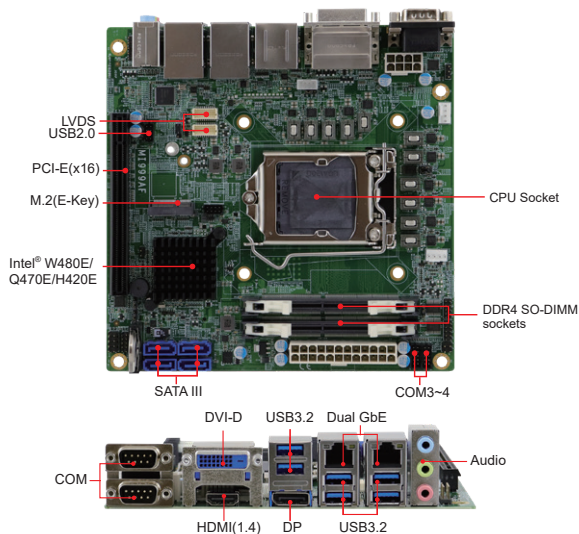
Industrial Mini-ITX Motherboard for

10th Gen. Intel® LGA1200 Xeon® W, Core™, Pentium® or Celeron® Processor and

Intel® W480E, Q470E and H420E Chipset

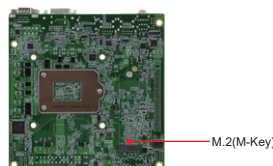


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Features

- 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 USB3.2, 4x USB2.0, 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 MI999AF-Q: Q470E MI999EF-H: H420E
Memory Types	2x DDR4 SO-DIMM socket, Max 64GB (support 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 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 MI999AF-W/ MI999AF-Q: Intel® I219LM MI999EF-H: Intel® I219V 2nd LAN MI999AF-W: Intel® I210AT MI999AF-Q/ MI999EF-H: Intel® I211AT
I/O Chip	Fintek F81964D-I
Serial Port	MI999AF-W/ MI999AF-Q: COM1 ~ COM2 (RS232/422/485) MI999EF-H: COM1 ~ COM2 (RS232) COM3 ~ COM4: RS232
USB 2.0	4x USB2.0 onboard
USB 3.0/ 3.1	6x USB3.2 (Gen1)
Serial ATA	4x SATA III

Audio	Built-in HD Audio w/ 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, with 2x 4GB DDR4 2133 +12V: 6.08A +5V: 1.19A +5Vsb: 0.11A +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)

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