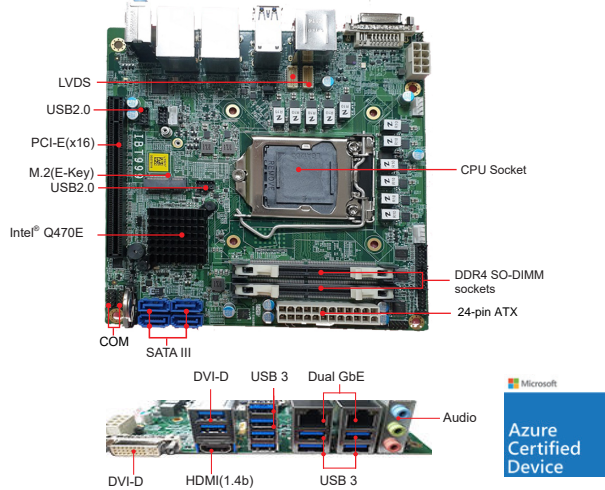


# IBT999 Mini-ITX Motherboard

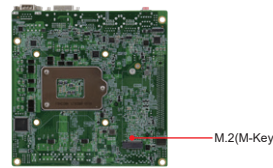
10th Gen Intel® Core™ / Pentium®  
with Intel® Q470E PCH

**NEW**  
**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 and 24-bit dual channel LVDS or eDP
- Dual Intel® Gigabit LAN
- 10x USB3.2, 6x USB2.0, 2x 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) 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-1
Serial Port	COM1 ~ COM2 (RS232)

USB 2.0	6x USB2.0 onboard
USB 3.0/ 3.1	10x USB3.2 (Gen1)
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, 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

IBT999	LGA1200 Q470E Mini-ITX motherboard
	w/ DVI-D, HDMI, eDP, Dual Gigabit LAN, RAID, iAMT(14), TPM(2.0)

### Tested Desktop Processors List

Processor	Core Number	Base ~ Turbo	TDP	Smart Cache
Xeon W-1250E	6	3.50 GHz ~ 4.70 GHz	80W	12 MB
Xeon W-1250TE	6	2.40 GHz ~ 3.80 GHz	35W	12 MB
Xeon W1270TE	8	2.00 GHz ~ 4.40 GHz	35W	16 MB
Xeon W-1290TE	10	1.80 GHz ~ 4.40 GHz	35W	20 MB
i9-10900E	10	2.80 GHz ~ 4.70 GHz	65W	20 MB
i9-10900TE	10	1.80 GHz ~ 4.50 GHz	35W	20 MB
i7-10700E	8	2.90 GHz ~ 4.50 GHz	65W	16 MB
i7-10700TE	8	2.00 GHz ~ 4.40 GHz	35W	16 MB
i5-10500E	6	3.10 GHz ~ 4.20 GHz	65W	12 MB
i5-10500TE	6	2.30 GHz ~ 3.70 GHz	35W	12 MB
i3-10100E	4	3.20 GHz ~ 3.80 GHz	65W	6 MB
i3-10100TE	4	2.30 GHz ~ 3.60 GHz	35W	6 MB
Pentium Gold G6400E	2	3.80GHz	58W	4MB
Pentium Gold G6400TE	2	3.20GHz	35W	4MB
Celeron G5900E	2	3.20GHz	58W	2MB
Celeron G5900TE	2	3.00GHz	35W	2MB