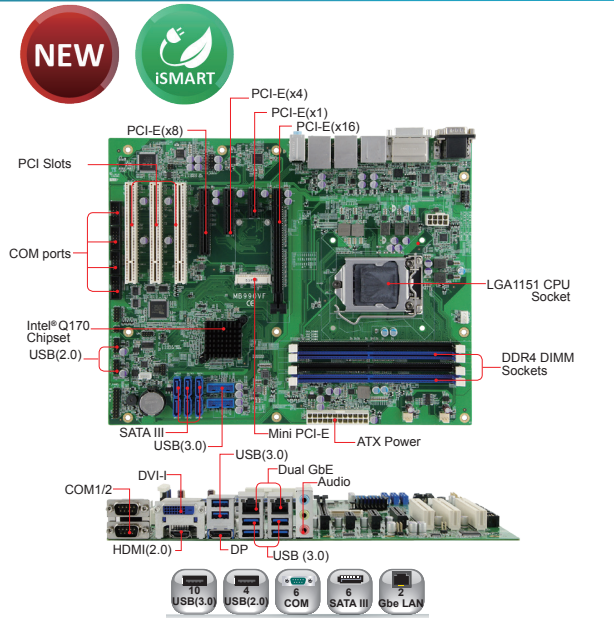


MB990

LGA1151 6th Generation Intel® Core™ i7/i5/i3 and Pentium® /Celeron® ATX Motherboard w/ Intel® Q170 PCH



Features

- 6th Generation Intel® Core™ i7 / i5 / i3 / Pentium® Celeron® QC/DC processors, up to 4GHz
- 4x DDR4 DIMM, Max. 64GB
- Intel® Processor integrated graphics device supports DVI-D, HDMI and DisplayPort
- Dual Intel® Gigabit LAN
- 4x USB 2.0, 10x USB 3.0, 6x COM, 6x SATAIII
- 1x PCI-E(x16), 1x PCI-E(x8) [(x1) Link], 1x PCI-E(x4) [(x1) Link], 1xPCI-E(x1)
- 1x Mini PCI-E, 3x PCI
- Watchdog timer, Digital I/O, iAMT (11.0), TPM (1.2), vPro, iSMART 3.0

System

CPU	LGA1151 for 6th Generation Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® QC/ DC processors, up to 4GHz
System Memory	4x DDR4 DIMM, Max. 64GB (Supports ECC by CPU SKUs)
System Chipset	Intel® Q170 PCH
BIOS	AMI
Watchdog Timer	256 levels
SSD	N/A
H/W Monitor	Yes
Expansion Slots	1x PCI-E(x16), 1x PCI-E(x8), 1x PCI-E(x4), 1x PCI-E(x1), 3x PCI, 1x Mini PCI-E

Graphics

VGA Controller	6th Generation Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® QC/ DC processors Integrated
VGA Memory	Max. Shared memory – 1024MB
Display Interface	Supports DVI-D, HDMI and DisplayPort

LAN

Controller	Intel® I219LM Gigabit LAN PHY Intel® I211AT PCI-E Gigabit LAN
Connector	RJ-45 on board

Multi I/O

I/O Chipset	Fintek F81866D-I 5x RS232, 1x RS232/422/485 (Jumper-less selection), 6x SATAIII
USB	6 ports on board, 4 ports via pin-header (USB 3.0) 4 ports via pin-header (USB 2.0)
Audio	Intel® Q170 PCH built-in HD audio + Realtek ALC892 codec
Others	Digital I/O (4-in/4-out), EuP/ErP support, RAID, TPM(1.2), iAMT(11.0), iSMART

Mechanical and Environmental

Dimensions	338mm x 122mm (13.31" x 4.8")
Max. Power Requirement	TBD
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10% ~ 90% (non-condensing)

Ordering Information

MB990VF	LGA1151 Q170 ATX Motherboard w/ DVI-D, HDMI, DisplayPort, dual Gigabit LAN, RAID, EuP/ErP compliant, iAMT (11.0), TPM (1.2), vPro, iSMART 3.0
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