



Preliminary



www.esis.com.au

Ph 02 9481 7420

Fax 02 9481 7267

esis.enq@esis.com.au

Features

- 7th / 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 HDMI (1.4), DVI-D and LVDS
- Dual Intel® Gigabit LAN
- 4x USB 2.0, 6x USB 3.0, 8x COM, 5x SATAIII
- 1x PCI-E(x16) [(x8) Link], 1x PCI-E(x8), 1x PCI-E(x4)
- 1x Mini PCI-E, 1x M.2 (M-key)
- Watchdog timer, Digital I/O, iAMT (11.0), iSMART

System

CPU	LGA1151 for 7th/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® C236/Q170 PCH
BIOS	AMI
Watchdog Timer	256 levels
SSD	1x mSATA via Mini PCI-E (Thru SATA III) 1x M.2 slot [Thru PCI-E(x1) x4]
H/W Monitor	Yes
Expansion Slots	1x PCI-E(x16), 1x PCI-E(x8), 1x PCI-E(x4) 1x Mini PCI-E, 1x M.2

Graphics

VGA Controller	7th/6th Generation Intel® Core™ i7 / i5 / i3 / Pentium® / Celeron® processor Integrated
VGA Memory	Max. Shared memory – 1024MB
Display Interface	MB991AF-C236 / MB991AF: 2x HDMI and LVDS MB991AF-D: HDMI, LVDS and DVI-D

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 F81846AD-I + F81504D 7x RS232, 1x RS232/422/485 (jumper-less selection), 5x SATAIII
USB	6 ports on board (USB 3.0) 4 ports via pin-header (USB 2.0)
Audio	Intel® C236 / Q170 PCH built-in HD audio + Realtek ALC662 codec
Others	Digital I/O (4-in/4-out), RAID, iAMT (11.0), iSMART

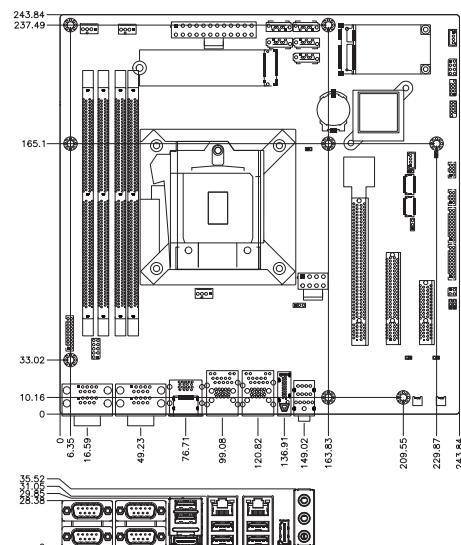
Mechanical and Environmental

Dimensions	244mm x 244mm (9.6" x 9.6")
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	90% (non-condensing @60°C)

Ordering Information

MB991AF-C236	LGA1151 C236 Micro ATX Motherboard w/ 2x HDMI and LVDS, dual Gigabit LAN, RAID, iAMT (11.0), iSMART
MB991AF	LGA1151 Q170 Micro ATX Motherboard w/ 2x HDMI and LVDS, dual Gigabit LAN, RAID, iAMT (11.0), iSMART
MB991AF-D	LGA1151 Q170 Micro ATX Motherboard w/ HDMI, DVI-D and LVDS, dual Gigabit LAN, RAID, iAMT (11.0), iSMART

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice. 2. ODM/OEM is available. 3. For user's manual & datasheet download, visit www.ibase.com.tw.