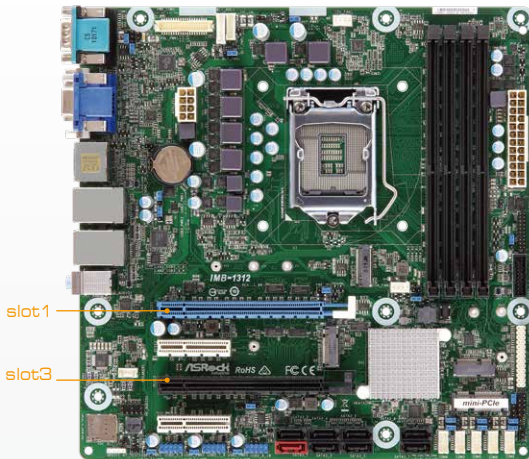


IMB-1312

Micro ATX Motherboard

Spotlight Features

- Socket LGA 1151 for Intel Core i7/i5/i3/Celeron
- Chipset Q370
- Supports Dual Channel DDR4 4x Long-DIMM 2400/2666, up to 64GB
- 1 x Dual Channel 24-bit LVDS, 1 x VGA, 1 x DVI-D, 1 x DP, 1 x HDMI
- 6 xUSB 3.1, 6 xUSB 2.0, 8 x SATA3, 6 x COM
- 1 x PCIe x16, 1 x PCIe x8, 2 x PCIe x4, 1 x mini-PCIe, 1 x M.2 Key M, 1 x M.2 Key E
- 2 x Intel LAN
- 1 x TPM
- ATX PWR Con. (24+8-pin)
- Support RAID 0,1,5,10



Specifications

Processor System

Dimensions	Micro ATX (9.6-in x 9.6-in)
CPU	Socket LGA 1151 for Intel Core i7/i5/i3/Celeron (Supports up to 95W)
Chipset	Intel® Q370

Expansion Slot

PCIe	1x PCIe x16, 1x PCIe x8, 2x PCIe x4 *Slot1: Gen3 x16 link, auto switch to x8 link if Slot3 is occupied.
mini-PCIe	1 x Full/Half mini-PCIe with PCIe x1 and USB 2.0
M.2	1x M.2 (Key E, 2230) with PCIe x1, CNVI and USB2.0 for Wireless 1x M.2 (Key M, 2242/2260/2280) with PCIe x4 and shared SATA3 for SSD

Memory

Technology	Dual Channel DDR4 2400/2666MHz
Max	64GB
Socket	4 x Long-DIMM

Graphics

Controller	Intel® HD Graphics (By CPU)
VGA	Supports max resolution up to 1920x1200
LVDS	Dual Channel 24-bit, max resolution up to 1920x1200@60Hz
eDP	N/A
HDMI	Max resolution up to 4096x2160@24Hz
DVI-D	Max resolution up to 4096x2304@60Hz
DisplayPort	Max resolution up to 4096x2304@60Hz
Multi Display	Triple Display

Ethernet

Interface	10/100/1000 Mbps
Controller	1 x Intel I210, 1 x Intel I219LM

Environment

Operating Temperature	0°C – 60°C
Storage Temperature	-40°C – 85°C

Rear I/O

VGA	1
DVI	1 x DVI-D
HDMI	1 x HDMI 1.4
DisplayPort	1 x DP1.2++
Ethernet	2
USB	4 x USB3.1
Serial	1 x COM (RS-232/422/485)
Audio Jack	3 (Mic-in. Line-in. Line-out)
PS/2	1x PS/2 combo

Internal Connector

USB	6 x USB2.0, 2 x USB3.1
LVDS	1
eDP	N/A
VGA	N/A
Serial	5 x COM(RS-232)
SATA	8x SATA3 (6.0Gb/s), one is shared with M.2 Key M
Parallel	1 (shared with GPIO)
GPIO	8 x GPI, 8 x GPO
SATA PWR Output Con	N/A
Speaker Header	1
TPM	1 x Onboard IC

Watchdog Timer

Output	From Super I/O to drag RESETCON#
Interval	256 segments, 0,1,2...255sec/min

Power Requirements

Input PWR	24+8-pin ATX PWR Con.
Power On	-AT/ATX Supported -AT : Directly PWR on as power input ready -ATX : Press button to PWR on after power input ready