

# /ISRock —Industrial—











# IMB-1212/ IMB-1213

Mini-ITX Motherboard

#### KEY FEATURES

- · Intel® 9th/8th Gen (Coffee Lake-S) Core™ Processors with H310 chipset (IMB-1212)
- · Intel® 9th/8th Gen (Coffee Lake-S) Core™ Processors with Q370 chipset (IMB-1213)
- · 2 x 260-pin SO-DIMM up to 64GB\* DDR4 2666MHz
- · 1 x PCle x16 (Gen3), 4 x USB 3.1 Gen1, 4 x USB 2.0, 1 x mini-PCle,
- 1 x M.2 Key E, 1 x M.2 Key M, 4 x COM, 2 x SATA3
- · 2 x Intel 1 Gigabit LAN
- · Supports dual display, 2 x DP 1.2, 1 x VGA, 1 x LVDS or eDP (IMB-1212)
- · Supports triple display, 3 x DP 1.2, 1 x LVDS or eDP (IMB-1213)
- · TPM header (IMB-1212)
- · TPM 2.0 onboard IC, supports Intel® vPro, AMT, RAID 0/1 (IMB-1213)
- · 12V/19~28V DC-In





Intel® 9th 8th Gen (Coffee Lake-S) Core™ Processors,up to 65W

\*The Performance of CPUs over 65W will be limited due to power design.

\* Intel Core i9/i7/i5 CPUs support up to 64GB (32GB per DIMM)
Intel Core i3/Pentium/Celeron CPUs support up to 32GB (16GB per DIMM)

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#### **SPECIFICATIONS**

Form Factor	IMB-1212	IMB-1213
Dimensions	Mini-ITX (6.7-in x 6.7-in)	

# Processor System

Chipset	Intel® H310	Intel® Q370
Socket	LGA1151	
BIOS	AMI SPI 128 Mbit	
Memory		
Memory Technology	Dual Channel DDR4 2666 MF	lz

2 x 260-pin SO-DIMM

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G	ra	p	hi	cs

Socket

Controller	Coffee Lake integrated graphics	
HDMI	N/A	
DisplayPort	DisplayPort 1.2, DP++	
	Max resolution up to 4096x2304@60Hz	
VGA	Max resolution up to	N/A
	1920x1200@60Hz	
LVDS	Dual channel 24 bit up to 1920x1200@60Hz	
eDP	eDP 1.4	
	Max resolution up to 4096x2	304@60Hz
DVI	N/A	
MultiDisplay	Dual Display	Triple Display

#### **Expansion Slot**

PCle	1 x PCle x16 (Gen3)	1 x PCle x16 (Gen3, Support riser card
		х8/х8, х8/х4/х4)
PCI	N/A	
mini-PCle	1 x Full/Half size with PCIe x1 a	nd USB 2.0
M.2	1 x M.2 (Key E, 2230) with PCle	x1, USB 2.0 and CNVi for Wireless

#### Audio

Interface Realtek ALC887/897, High Definition Audio. Line-out, Mic-
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#### Ethernet

Controller/ Speed	LAN1: 1 x Intel® I219V with 10/100/1000 Mbps	LAN1: 1 x Intel <sup>®</sup> I219LM with 10/100/1000 Mbps, supports AMT/vPro
	LAN2: 1 x Intel® I210 with 10.	/100/1000 Mbps
Connector	2 x RJ-45	

Rear I/O	IMB-1212	IMB-1213
HDMI	N/A	
DisplayPort	2 x DP 1.2	3 x DP 1.2
VGA	N/A	
DVI	N/A	
Ethernet	2 x 1 Gigabit LAN	
USB	4 x USB 3.1 (Gen1)	
Audio	2 (Mic-in, Line-out)	
COM	N/A	
PS2	N/A	

#### Internal Connector

USB	4 x USB 2.0 (2 x 2.54 pitch he	ader)	
COM	COM3, 4(RS232/422/485)	COM3, 4(RS232/422/485)	
	COM1, 2(RS232)		
Parallel	N/A		
GPIO	4 x GPI, 4 x GPO		
TPM	TPM Header	TPM 2.0 onboard IC	
LVDS	1 (shared with eDP, by jumpe	r setting)	
eDP	1 (shared with LVDS, by jump	er setting)	
VGA	1	N/A	
SATA PWR Output	1		
Speaker Header	1		

#### Storage

M.2	1 x M.2 (Key M, 2242/2260/ 2280) with SATA3 for SSD	1 x M.2 (Key M, 2242/2260/ 2280) with PCIe x4 and SATA3 for SSD
mSATA	N/A	
SATA	2 x SATA3 (6Gb/s)	
RAID	N/A	Intel® SATA RAID 0/1
Watchdog Timer		
Output	From Super I/O to drag RESET	CON#

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

### Power Requirements

Input PWK	12V or 19~28V DC-in with 4-pin plug PWR cable or 4-pin DC Jack
Power On	AT/ATX Supported
	- AT : Directly PWR on as power input ready
	- ATX : Press button to PWR on after power input ready

### Environment

Operating Temp	0°C~60°C
Storage Temp	-40° C – 85° C
Operating Humidity	5%~90%
Storage Humidity	5%~90%

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.



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