



ASRock
— Industrial —



IoT Solutions
Alliance



IMB-1311-L/ IMB-1311-D

Micro-ATX Motherboard

KEY FEATURES

- Intel® 9th/ 8th Gen (Coffee Lake-S) Core™ Processors with Q370 chipset
- 4 x 288-pin Long-DIMM up to 128GB* DDR4 2666MHz
- 1 x PCIe x16 (Gen3), 1 x PCIe x4 (Gen3), 2 x PCI, 6 x USB 3.1 Gen1, 6 x USB 2.0, 1 x M.2 Key E, 1 x mini-PCIe, 1 x M.2 Key M, 6 x COM, 6 x SATA3
- 2 x Intel 1 Gigabit LAN
- Supports triple display, 1 x HDMI 1.4, 1 x DP 1.2, 1 x VGA, 1 x LVDS, 1 x DVI-D (IMB-1311-L)
- Supports triple display, 1 x HDMI 1.4, 1 x DP 1.2, 1 x eDP, 1 x DVI-D (IMB-1311-D)
- TPM 2.0 onboard IC
- Supports Intel® vPro, AMT, RAID 0/1/5/10
- ATX PWR



IMB-1311-L



IMB-1311-D

SPECIFICATIONS

Form Factor	IMB-1311-L	IMB-1311-D
Dimensions	Micro ATX (9.6-in x 9.6-in)	

Processor System

CPU	Intel® 9th/ 8th Gen (Coffee Lake-S) Core™ Processors, up to 65W	
Chipset	Intel® Q370	
Socket	LGA1151	
BIOS	AMI SPI 128 Mbit	

Memory

Technology	Dual Channel DDR4 2666 MHz	
Capacity	128GB*	
	* Intel Core i9/i7/i5 CPUs support up to 128GB (32GB per DIMM) Intel Core i3/Pentium/Celeron CPUs support up to 64GB (16GB per DIMM)	
Socket	4 x 288-pin Long-DIMM	

Graphics

Controller	Coffee Lake integrated graphics	
HDMI	HDMI 1.4 Max resolution up to 4096x2160@24Hz	
DisplayPort	DisplayPort 1.2, DP++ Max resolution up to 4096x2304@60Hz	
VGA	Max resolution up to 1920x1200@60Hz	N/A
LVDS	Dual channel 24 bit up to 1920x1200@60Hz	N/A
eDP	N/A	eDP 1.4 Max resolution up to 4096x2304@60Hz
DVI-D	Max resolution up to 1920x1200@60Hz	
MultiDisplay	Triple Display	

Expansion Slot

PCIe	1 x PCIe x16 (Gen3, Support riser card x8/x8, x8/x4/x4) 1 x PCIe x4 (Gen3)
PCI	2
mini-PCIe	1 x Full/Half size with PCIe x1 and USB 2.0
M.2	1 x M.2 (Key E, 2230) with PCIe x1, USB 2.0 and CNVi for Wireless

Audio

Interface	Realtek ALC887, High Definition Audio. Line-out, Mic-in, Line-in
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Ethernet

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

Rear I/O	IMB-1311-L	IMB-1311-D
HDMI	1 x HDMI 1.4	
DisplayPort	1 x DP 1.2	
VGA	1	N/A
DVI-D	1	
Ethernet	2 x 1 Gigabit LAN	
USB	4 x USB 3.1 (Gen1)	
Audio	3 (Mic-in, Line-in, Line-out)	
COM	COM3(RS-232/422/485)	
PS2	1	

Internal Connector

USB	2 x USB 3.1 (Gen1) (1 x USB3.1 header) 6 x USB 2.0 (3 x 2.54 pitch header)	
COM	COM1, 2, 4, 5, 6(RS232)	
Parallel	1 (shared with GPIO)	
GPIO	8 x GPI, 8 x GPO (shared with LPT header)	
TPM	TPM 2.0 onboard IC	
LVDS	1	N/A
eDP	N/A	1
VGA	N/A	
SATA PWR Output	N/A	
Speaker Header	1	

Storage

M.2	1 x M.2 (Key M, 2242/2260/2280) with PCIe x4 and shared SATA3 for SSD
mSATA	N/A
SATA	6 x SATA3 (6Gb/s), SATA3_1 shared with M.2 Key M
RAID	Intel® SATA RAID 0/1/5/10
eMMC	N/A

Watchdog Timer

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

Input PWR	ATX PWR (24+8-pin)
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%

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