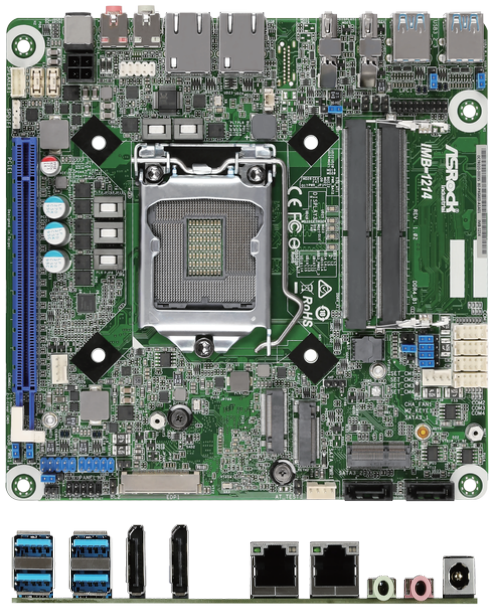
ASRock Industrial

intel IoT Solutions Alliance

Preliminary

IMB-1214

Mini-ITX Motherboard



Key Features

- Socket LGA 1151 for Intel Core i7/i5/i3/Celeron
- Supports Dual Channel DDR4 SO-DIMM 2400/2666MHz, up to 32GB
- 2 x DisplayPort, 1 x eDP
- 4 xUSB 3.1, 4 x USB 2.0, 2 x SATA3, 4 x COM
- 1 x PCIe x16, 1 x M.2 Key E, 2 x M.2 Key M
- 1 x TPM header
- 19V DC-in (DC Jack/4-pin ATX PWR Con)

Specifications

Processor System	
Dimensions	Mini-ITX (6.7-in x 6.7-in
CPU	Socket LGA 1151 for Intel Core i7/i5/i3/Celeron (Supports up to 65W)
Chipset	Intel® H310(Bottom side)

Expansion Slot	
PCIe	1 x PCIe x16
mini-PCIe	N/A
M.2	1x M.2 (Key E, 2230) with PCIe x1, CNVI and USB2.0 for Wireless 1x M.2 (Key M, 2242/2280) with SATA3 for SSD 1x M.2 (Key M, 2242/2260) with PCIe x1 for SSD

Memory	
Technology	Dual Channel DDR4 2400/ 2666 MHz
Max	32 GB
Socket	2 x SO-DIMM

Graphics	
VGA	N/A
DVI	N/A
LVDS	N/A
eDP	Max resolution up to 4096x2304@60Hz
HDMI	N/A
DisplayPort	Max resolution up to 4096x2304@60Hz
Multi Display	Dual Display

Ethernet	
Interface	10/100/1000 Mbps
Controller	1 x Intel I219V, 1 x Realtek RTL8111H

Rear I/O	
VGA	N/A
DVI	N/A
HDMI	N/A
DisplayPort	2
Ethernet	2
USB	4 x USB 3.1
Serial	N/A
Audio Jack	2 (Mic-in. Line-out)
PS/2	N/A

Internal Connector	
USB	4 x USB 2.0
LVDS	N/A
eDP	1
VGA	N/A
Serial	1 x COM(RS232/422/485), 3 x COM(RS-232)
SATA	2 x SATA3 (6.0Gb/s)
GPIO	N/A
SATA PWR Output Con	1
Speaker Header	1
TPM	1 x Header

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

Power Requirements	
Input PWR	19V DC-in (DC Jack/4-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

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