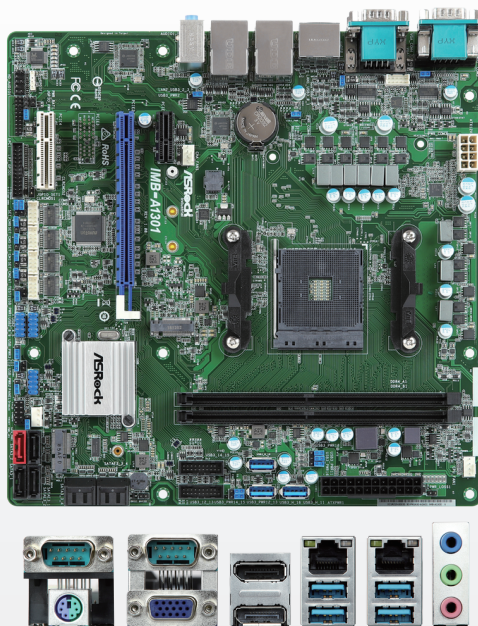




Preliminary

IMB-A1301

Micro-ATX Motherboard

Key Features

- AMD AM4 Socket with Ryzen Series CPU
- Supports Dual Channel DDR4 Long-DIMM 2933MHz, up to 32GB
- 2 x DisplayPort, 1 x VGA
- 4 x USB 3.1, 6 x USB 2.0, 7 x USB 3.0, 4 x SATA3, 6 x COM
- 1 x PCIe x1, 1 x PCIe x4, 1 x PCIe x16, 1 x M.2 Key M, 1 x M.2 Key E
- 2 x Intel LAN
- 1 x Onboard TPM 2.0 IC
- ATX PWR 24+8-pin

Specifications

Processor System

Dimensions	Micro-ATX (9.6-in x 9.6-in)
CPU	AMD Ryzen Series-Raven Ridge (2200G, QC,3.5GHz,65W) (2400G, QC, 3.6GHz,65W)
Chipset	AMD Promontory X470

Expansion Slot

PCIe	1 x PCIe x16 (Supports x 8/x 8 extension card), 1 x PCIe x1, 1 x PCIe x4
Mini-PCIe	N/A
M.2	1 x Key M(3042/3060/3080)with PCIe x4 and SATA3 for SSD 1 x Key E(2230)with PCIe x1 and USB 2.0 for Wireless

Memory

Technology	Dual Channel DDR4 2933 MHz
Max	32GB
Socket	2 x Long-DIMM

Graphics

GPU	AMD Radeon™ Vega 8 Graphics(2200G), AMD Radeon™ Vega 11 Graphics(2400G)
VGA	Max resolution up to 1920 x 1200@60Hz
LVDS	N/A
eDP	N/A
HDMI	N/A
DVI	N/A
DisplayPort	DisplayPort++ 1.2 with max resolution up to 4096 x 2160@ 60Hz
Multi Display	Triple Display

Ethernet

Interface	10/100/1000 Mbps
Controller	2 x Intel® I210-AT

Watchdog Timer

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

Rear I/O

VGA	1
DVI	N/A
HDMI	N/A
DisplayPort	2
Ethernet	2
USB	4 x USB 3.1
Audio Jack	3 (Mic-in. Line-in. Line-out)
Serial	2 x COM (RS-232/422/485)
PS/2	1 x PS/2 Combo

Internal Connector

USB	6 x USB 2.0, 7 x USB3.0 (2 x header, 3 x Type A)
LVDS	N/A
eDP	N/A
VGA	N/A
Serial	4 x COM (RS232)
SATA	8 x SATA3 (6.0 Gb/s, one is shared with M.2 Key M)
Parallel	1
GPIO	8 x GPI, 8 x GPO
SATA PWR Output Con	N/A
Speaker Header	1
TPM	1 x Onboard TPM 2.0 IC

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