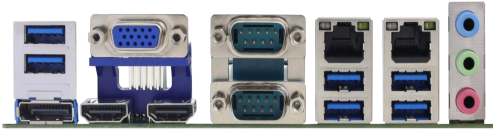
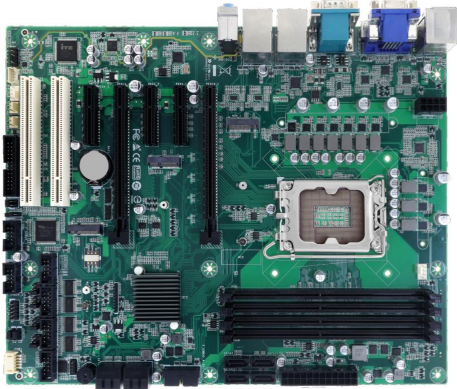


# BIW68-AHP

ATX with 13th/12th Gen Intel® Raptor Lake-S/Alder Lake-S, Core™ i9/i7/i5/i3, Pentium®, Celeron® Processor & Intel® W680 for High-Performance Solution



## • Specifications

CPU SUPPORT	Intel® Alder Lake-S for LGA1700 Socket CPU
CHIPSET	Intel W680
MEMORY	4 x DDR4 3200Mhz UDIMM
EXPANSION SLOT	2 x PCI
	3 x PCI-Ex4 Slot
	1 x PCIe Gen4x 16, select 1x PCIe Gen4x8
	1 x PCIe Gen4x 8 (by 1xPClex16 slot, share with PCIe1x16 signal)
	8 x SATAIII (4x SATA port share with 1 PClex4 slot (by mux switch))
M.2 key M type (2242/2280 with PCIE Gen4x4 for storage)	M.2 3042/3052 B Key (3042/3052 with PCIe x1 and USB3.0 for 4G/5G )
	M.2 key E type 2230(2230 with PCIe x1 and USB2.0 Intel CNVI support for WIFI/BT)
	TPM 2.0 chip onboard (opt.)
GRAPHICS	1 x VGA
	2 x HDMI
	1 x DP++
AUDIO	Realtek ALC897 HD Audio
LAN	1 x Intel i225-V 2.5G LAN
	1 x Intel i226-LM 2.5G LAN, Support vPro
SUPER I/O CHIP	FINTEK F81966
REAR I/O	2 x HDMI
	2 x LAN
	1 x Audio jack Line in/Line out/Mic in
	2 x RS232/422/485 (DB9 connector)
	1 x VGA
	1 x DP++
INTERNAL I/O	6 x USB3.2 Gen2
	4 x Serial Header for RS232
	1 x Front Panel Header
	1 x CPU PWM-FAN Header
	3 x System DC-FAN Header
	1 x Buzzer
	1 x Clear CMOS header
	1 x Ring/5/12V Jumper for serial port use
	1 x front audio header (Line-out & Mic-in)
	1 x USB 3.0 Header (support 1 devices)
	1 x USB 2.0 Header (support 2 devices)
	1 x 24pin ATX power
	1 x 1*4-pin wafer for Speaker
	1 x 1*3 pin header for AT/ATX power select jumper
1 x SPI	
16-Bit DIO header(Multi-function with Parallel port )	
ATX 2x4 pin connector for 12V power	
DIMENSION	305mm x 244mm
ENVIRONMENT	Working Temperature 0°C ~ 60°C°C
	Relative Humidity 5% ~ 90%
OS SUPPORT	Support Windows 10
	Support Linux
	Support Ubuntu

## • Features

- Support Intel Core i7/i5/i3 processor (LGA1700) with Intel W680 chipset, TDP: 125W
- Support display output : VGA/2xHDMI/DP++
- 4 x DDR4 3200 MHz LONG-DIMM, Support ECC Function
- 1 x Intel I226-V GbE LAN, 1 x Intel I226-LM GbE LAN
- 4 x USB2.0 & 6 x USB3.2 Gen2
- 4 x RS232, 2 x RS232/422/485
- 8 x SATAIII
- 1x M.2 M KEY socket, support PCIe Gen4 x4 for storage
- 1x M.2 B KEY socket, support PCIe x1 and USB for 5G
- 1x M.2 E KEY socket, support PCIe x1 and USB for WIFI/BT
- 2 x PCIe x16 slot
- 3 x PCIe x4 slot
- 2 x PCI slot
- Support 0 ~ 60 degree C operating temperature
- Power Supply: ATX power input