

BIW68-AHP Industrial PC

EMPOWERED BY
HAILO



- Support 12th/13th/14th Gen Intel Core i7/i5/i3 processor with Intel W680 chipset, TDP: 125W
- Support quad display : VGA/2xHDMI 2.0/DP++
- 4 x DDR4 3200 MHz U-DIMM (ECC/ Non-ECC), up to 128G
- Support M.2 Hailo-8™ AI Accelerator, up to 26 TOPS (option)
- 1 x Intel i226-V 2.5G LAN, 1 x Intel i226-LM 2.5G LAN
- 4 x USB2.0 , 6 x USB3.2 Gen2, 2 x USB3.2 Gen1
- 4 x RS232, 2 x RS232/422/485
- 8 x SATA3
- 1 x M.2 M key 2242/2280 support PCIe4.0 x4 for NVMe storage
- 1 x M.2 B key 3042/3052 support PCIe3.0 x1 + USB3.2 w/ SIM slot for 4G/5G module
- 1 x M.2 E key 2230 support PCIe3.0 x1 + USB2.0 for WIFI/BT module
- 2 x PCIe4.0x16 slot
- 3 x PCIe4.0x4 slot
- 2 x PCI slot

Specification

CPU SUPPORT	LGA1700, support 12th/ 13th /14th Gen Intel® Core Processor
CHIPSET	Intel W680
MEMORY	4 x 288-pin DDR4-3200Mhz U-DIMM(ECC/ Non-ECC), up to 128GB
EXPANSION SLOT	1 x M.2 B key 3042/3052 support PCIe3.0 x1 + USB3.2 w/ SIM slot for 4G/5G module 1 x M.2 M Key 2242/2280 support PCIe4.0 x4 for NVMe storage 1 x M.2 E Key 2230 support PCIe3.0 x1 + USB2.0, support WIFI/BT module 2 x PCIe4.0 x16 slot (x16 +NA or x8 + x8) 3 x PCIe4.0 x4 slot (PEX4_3 share IO w/ SATA1~4) 2 x PCI slot
GRAPHICS	Intel® Integrated Graphics, support quad display - 2 x HDMI 2.0 connectors (4096x2160@60Hz) - 1 x DP++1.4 connector (4096x2160 @60Hz) - 1 x VGA connector (1920x1200 @60Hz)
AUDIO	Audio Codec: ALC897 + ALC105, support 4 ohm 2W amplifier
LAN	Dual 2.5GbE 1 x Intel i226-V 1 x Intel i226-LM, support Intel® vPro
SUPER I/O CHIP	FINTEK F81966

REAR I/O	<ul style="list-style-type: none"> 2 x HDMI connector 1 x DP connector 1 x VGA connector 6 x USB3.2 Gen2 Type A connector 2 x RJ45 connector, support 2.5G 2 x COM port, support RS232/422/485 3 x audio port, support MIC-in, Line-in, Line-out
INTERNAL I/O	<p>Expansion slots:</p> <ul style="list-style-type: none"> - 1 x M.2 M key - 1 x M.2 B key w/SIM slot - 1 x M.2 E key - 2 x PCIe4.0 x16 slot (x16 + Non or x8 + x8) - 3 x PCIe4.0 x4 slot (PEX4_3 share IO w/ SATA1~4) - 2 x PCI slot <p>SATA:</p> <ul style="list-style-type: none"> - 8 x SATA3 7pin connector (SATA1~4 share IO w/ PEX4_3) <p>Audio:</p> <ul style="list-style-type: none"> - 1 x 2*5 pin header for MIC-in, Line-out - 1 x 1*4 pin box header for 4 ohm 2W amplifier speaker <p>USB:</p> <ul style="list-style-type: none"> - 2 x 2*5 pin header, support 4 x USB2.0 - 1 x 2*5 pin header, support 2 x USB2.0 + 1 x USB2.0 Type A onboard(opt) - 1 x 2*10 pin box header, support 2 x USB3.2 Gen1 <p>Power:</p> <ul style="list-style-type: none"> - 1 x 2*4 pin CPU power connector - 1 x 2*12 pin ATX power connector <p>Serial Port:</p> <ul style="list-style-type: none"> - 4 x 2*5 pin RS232 box header - 4 x 2*3 pin COM power select header (RI/5V/12V, default is RI) <p>Others:</p> <ul style="list-style-type: none"> - 1 x buzzer - 1 x 2*13 pin printer/ 16-bit DIO box header (function select by BIOS) - 1 x 2*2 pin header for printer/ DIO function select(open drain/ low, default is open drain, printer must set to open drain) - 1 x 2*2 pin DIO power select header(3.3V/5V, default is 3.3V) - 1 x 1*4 pin CPU Fan header - 1 x 1*4 pin System Fan header - 2 x 1*3 pin System Fan header - 1 x 1*3 pin clear CMOS - 1 x 2*5 pin front panel header - 1 x 1*5 pin SMBUS box header - 1 x 1*3 pin AT/ATX mode select header (default is ATX) - TPM2.0 onboard
DIMENSION	ATX 305 x 244 x1.6mm (D x W x H)
ENVIRONMENT	0°C ~ 60°C Humidity : 5% ~ 90%
OS SUPPORT	<ul style="list-style-type: none"> Support Windows 10 IoT Enterprise 21H2 Windows 11 IoT Enterprise 24H2 Windows 10/11 21H2 or later version Support Ubuntu 22.04

*The specification and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!