



• Specifications

CPU SUPPORT	Intel 12th Gen (Alder Lake-S) Core™ Processors, up to 65W
CHIPSET	Intel H610
MEMORY	2 x DDR4 3200 MHz SO-DIMM Slot
EXPANSION SLOT	1 x PCI-E x16 Slot 1 x Full size Mini-PCIe slot 1 x SIM card slot 1 x M.2 key B slot 1 x M.2 key E slot
GRAPHICS	1 x VGA 1 x LVDS or eDP 1 x HDMI 1 x Display Port
AUDIO	Realtek ALC897 HD Audio 1 x Build in 3W internal Audio Amplifier
LAN	1 x Intel I219-V(10/100/1000Mbps) 1 x Intel i225-V 2.5G LAN
REAR I/O	4 x USB 2.0 1 x RS-232 (DB9 connector) 1 x HDMI 1 x D-Sub 2 x LAN by Intel i225-V + i219-V 1 x Audio jack Mic-In, Line-out 2 x USB 3.0 1 x Display Port 1 x RS232/422/485 (DB9 connector)
INTERNAL I/O	1 x USB 2.0 Header (support 1 device) 2 x Serial Header for RS232 1 x Front Audio Header Line-in, speaker_out 1 x LVDS Connector 1 x Front Panel Header 1 x DIO(GPIO) 8 bit (4-In, 4-Out) Header 1 x ATX Power Connector 1 x CPU PWM-FAN Header 1 x System DC-FAN Header 1 x Buzzer 1 x Digital I/O Header 1 x JFRONT Panel Header, support power, reset, HDD Led. header 1 x Clear CMOS header 1 x 2*2 pin 12V power connector 1 x eDP connector (optional) 1 x SATA 6Gb/s with power connector TPM 2.0 (Opt.)
DIMENSION	Mini ITX 170mm x 170mm
ENVIRONMENT	Working Temperature 0°C ~ 60°C Relative Humidity 5% ~ 90%
ATATX	AT / ATX selection
OS SUPPORT	Support Windows 10 64 bit Support Linux Support Ubuntu 20.04

• Features

- LGA1700, support 12th/13th Intel® Core processor (Alder Lake-s), Max TDP at 65W
- Supports display output : LVDS or eDP, 1xHDMI, 1x VGA, 1x DP
- Support 2 x DDR4 3200 MHz SO-DIMM, up to 64GB
- Dual LAN by Intel i225-V + i219-V
- 2 x USB3.2 Gen1 / 7 x USB2.0
- 1 x RS232/422/485, 3 x RS232
- 1 x PCIEX16 (Gen4) Slot
- 1x M.2 KEY B, support USB3.2 Gen1 +PCIEx1 (3042/3052)or PCIEx2(2242) or PCI-Ex1+SATA(2242)
- 1x M.2 KEY E slot, support PCIEx1+USB2.0 & Intel CNVI
- 1x Mini PCIe support PCIEx1+USB2.0 or mSATA
- Support 0 ~ 60 degree C operating temperature
- Support ATX power