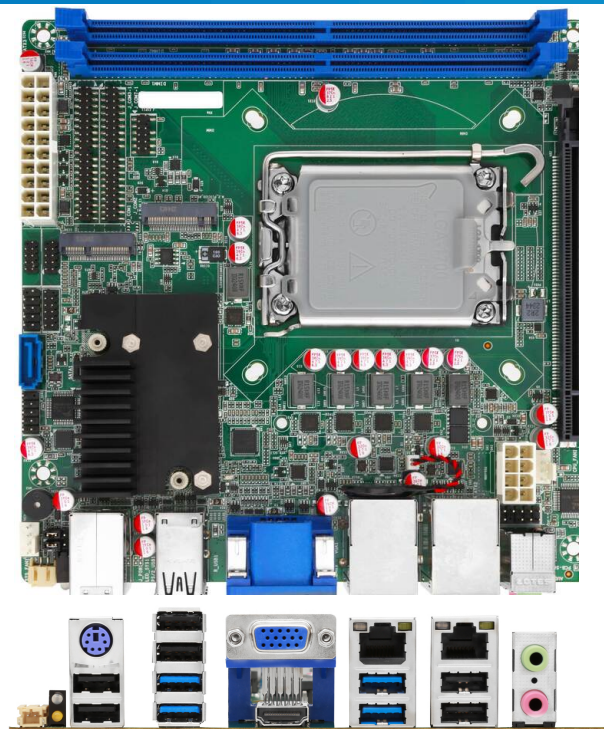
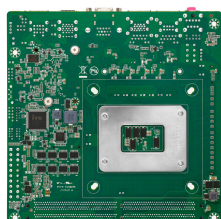


Features

- Intel 12/13/14th Alder Lake-S Core i3/i5/i7/i9 LGA1700 processor
- Intel H610 Chipset
- 2 x DDR4 U-DIMM, up to 64GB
- Support dual displays for HDMI, VGA
- 1 x M.2 for wifi + BT, 1 x PCIe (x16)
- 1 x SATA III + 1 x M.2 NVMe/SATA SSD
- 2 x Realtek Gigabit Ethernet
- 12 x USB, 10 x COM
- 1 x ATX standard Power input



Core System

CPU	Intel 12/13/14th Alder Lake-S LGA1700 Socket Processor TDP Max. 65W
System Memory	2 x DDR4 3200MHz Non-ECC U-DIMM, up to 64GB
Chipset	Intel H610
BIOS	AMI
Storage	1 x SATAIII + 1 x M.2
Watchdog Timer	1 - 255 steps by software program
Expansion Slot	1 x PCIe (x16) 1 x M.2, 2230, PCIe + USB 2.0 for WIFI + BT
Power Input	ATX Standard 20P + 8P
Smart Fan Control	CPU Fan / System Fan
Dimensions	170 x 170 mm
Operating Temperature	0°C to +60°C (+32°F to +140°F)
Storage Temperature	-20°C to +70°C (-4°F to +158°F)
Humidity	10% to 95% relative humidity, non-condensing

Rear I/O

USB	4 x USB 3.0 6 x USB 2.0
Display I/O	1 x HDMI 1.0 1 x VGA
Audio I/O	1 x Mic-in / 1 x Line-out
LAN I/O	2 x RJ-45, Realtek Giga LAN
Serial Port	
PS/2 Port	1 x PS/2
Others	1 x Power on wafer, 1 x Power LED + SSD LED

Internal Connectors

USB	2 x USB 2.0
Display I/O	-
Audio I/O	1 x Header, Line-out + MIC
Serial Port	7 x RS-232 full lanes, 3 x RS-232 2 lanes
Parallel Port	-
GPIO	1 x GPIO Header (Programmable support 8-bit GPIO)
FAN	1 x CPU fan header, 1 x System fan header
Power	1 x ATX Standard
Others	1 x AT/ATX select, 1 x CMOS clear

Graphics

Chipset	Intel UHD Graphics
VGA	Up to 1920 x 1200 @ 60Hz
DVI	-
HDMI	Up to 4096 x 2160 @ 30Hz
Display Port	-
LVDS	-
eDP (Option)	-

Others

OS Support	Windows 10, Windows 11, Linux
Certifications	CE / FCC Class B