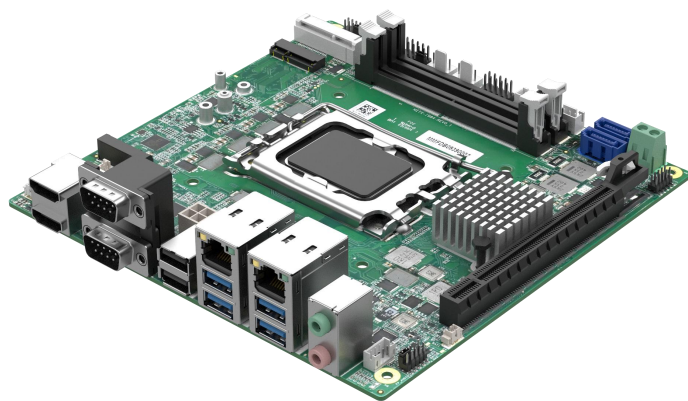




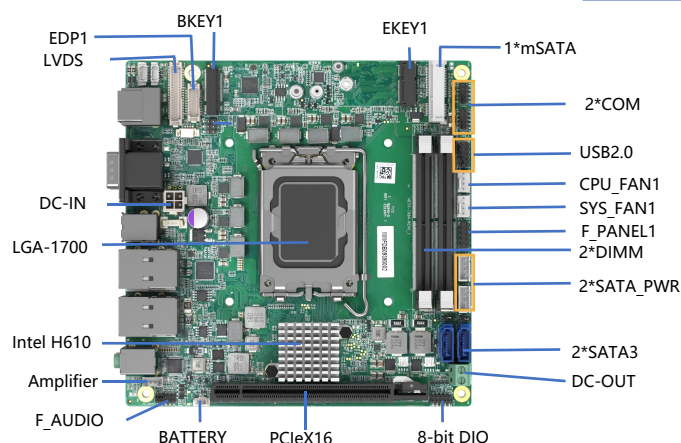
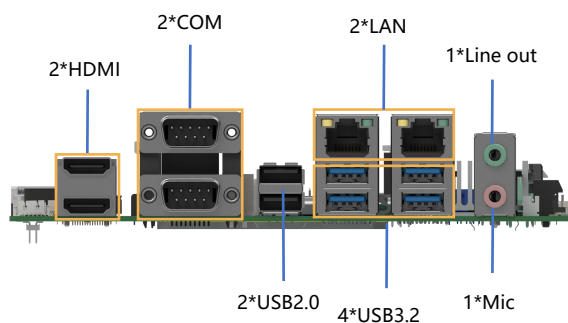
Key Features

- Intel® 12th/13th Alder lake-S/Raptor lake-S LGA1700 processor CPU, Intel® H610 chipset
- 2*DDR5 4800/5600MHz SODIMM, up to 96GB
- 1*eDP, 2*HDMI, 1*LVDS
- 1*I219LM and 1*I210AT dual Gigabit network ports
- 4*USB3.2, 4*USB2.0, 4*COM, 8-bit DIO,
- 1*PCIeX16(X16 gen5.0,Signal), Support GPU graphics
- 1*M.2 E-Key 2230, 1*M.2 B-Key 3042/3052
- 1*mSATA, 2*SATA3.0 three-memory
- 1*Line out&1*Mic, 3W Dual-channel amplifier interface
- Standard Mini ITX specification, 12V DC power

Description

MITX-1984 is an industrial motherboard equipped with Intel® Alder lake-S/Raptor lake-S series processors and H610 chipset, designed in accordance with the standard Mini ITX motherboard specifications, with comprehensive functional interfaces and DC power supply, which is widely used in industries and fields such as smart healthcare, industrial automation and intelligent transportation.

I/O View

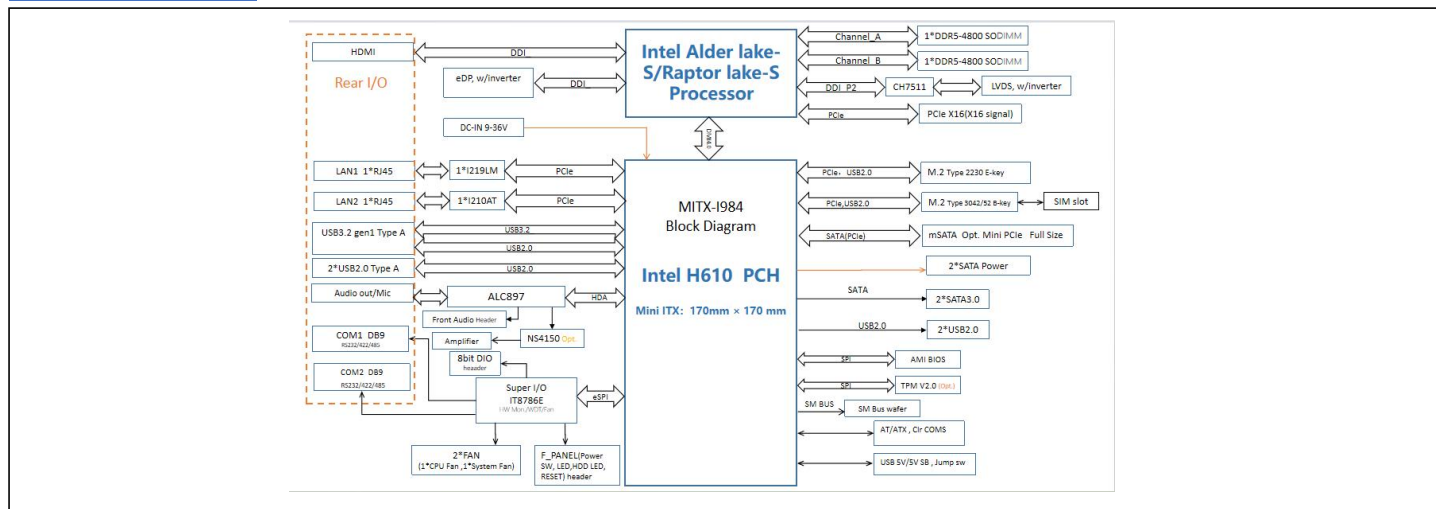


SPEC.

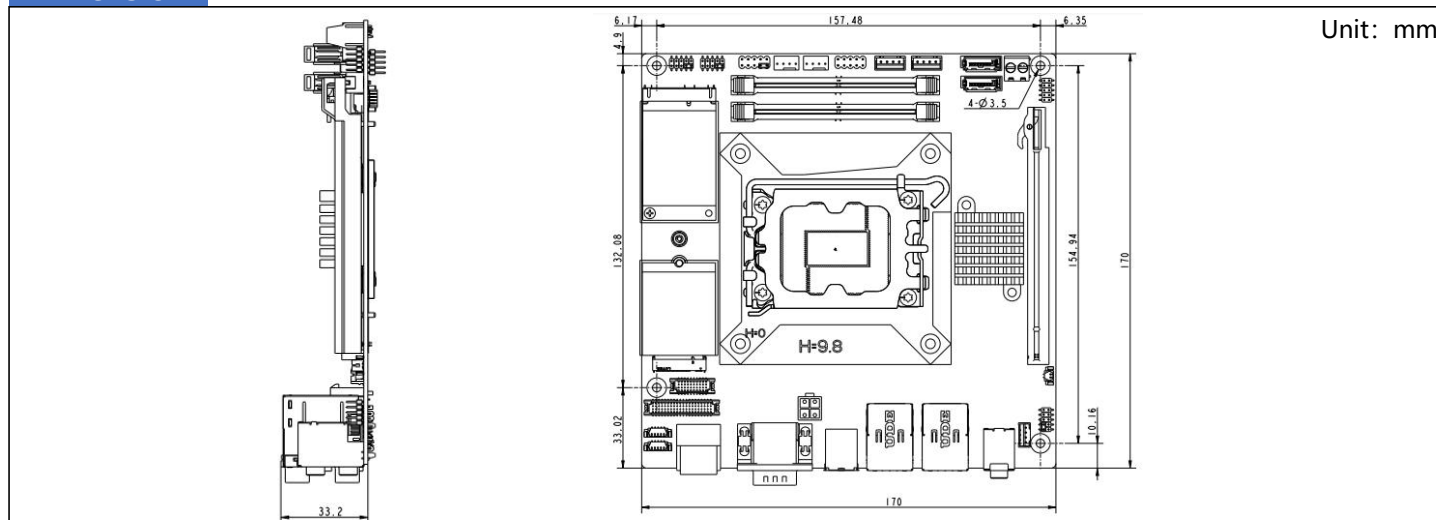
CPU	Intel® 12th-Gen Alder lake-S/13th-Gen Raptor lake-S Core™ i9/i7/i5/i3/Pentium/Celeron, LGA 1700 Socket, It can support a maximum power consumption of 65W
Chipset	Intel® H610 PCH
Memory	2*262-pin Non-ECC SODIMM, Dual-channel 2*DDR5 4800/5600MHz, up to 96GB
Expansion	1*PCIeX16(Gen5.0, X16Signal)Expansion slots, Supports GPU graphics cards with power consumption below 150W; 1*M.2 E-Key 2230 Support Wifi+BT Wireless module, 1*M.2 B-Key 3042/3052 (PCIe3.0X1+USB2.0 The signal has a SIM slot) , Support 5G NR or 4G LTE wireless routing module
Graphics	Intel® UHD Graphics 770, support DirectX 12,OpenGL 4.5, OpenCL 3.0, Highest resolution: HDMI is 4096*2160@60Hz, eDP is 4096*2160@60Hz, LVDS is1920*1200@60Hz
Audio	Realtek ALC897 HD audio chip, support 5.1 channels, optional support 2*3W amplifier
LAN	1*Intel® I226V, 10M/100M/1000M adaptive, support WOL 1*Intel® I219LM, 10/100/1000Mbps adaptive, support WOL
Storage	1*mSATA(Default SATA, Optional PCIeX1), 2*SATA3.0, Supports three Memory disks
Rear I/O	2*LAN (RJ45); 4*USB3.2 (Type A), 2*USB2.0(Type A),both support USB Power jumper switching Power supply mode 5V System or 5VSB; 2*COM (RS232/422/485, DB9 Male); 2*HDMI, 1*Line out+1*Mic, 3.5mm phone jack
Internal I/O	2*USB2.0(2*5pin dupont pins), 2*COM (RS232 2*5pin dupont pins), 1*8bit DIO(2*5pin dupont pins), 2*SATA3.0, 1*eDP, 1*LVDS, 1*F AUDIO (2*5pin dupont pins), 1*Amplifier (1*4pin wafer) , 2*FAN(2*CPU_FAN, 1*system_FAN), 1*SM bus(1*4pin wafer), 2*SATA_PWR, 1*DC-IN 12V, 1*DC-OUT 12V
Switch & LED	F_PANEL (Power SW, Reset, Power LED, HDD LED) , Clear CMOS jumper, AT/ATX jumper, USB Power jumper, eDP or LVDS voltage jumper
Power Supply	DC-IN 12V, 4pin house port, TDP: TBD
Watchdog Timer	Programmable timeout interrupt or system reset, 1 to 255 seconds
OS Support	Windows10/Windows11 IoT Enterprise 2021 LTSC; Ubuntu*, SuSe*, Redhat* Enterprise, WR Linux* 3; Yocto Project* BSP tool-based embedded Linux distribution; Celadon (Android*) in VM; Wind River VxWorks* 7

Dimension	(W*H): 170*170mm, Mini ITX form
Height	Top Side: 33.2mm; PCB: 1.6mm
Operating Temperature	0 ~ 60°C
Storage Temperature	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
EMC/Certification	CE/FCC Class A

Block Diagram



Dimension



Ordering Info

Model No.	Introduction
MITX-I984-S001	Embedded single board computer, Intel Alder lake-S/Raptor lake-S LGA1700 CPU+Intel H610 PCH, 2*LAN, 4*USB3.2, 4*USB2.0, 4*COM, 8-bit GPIO, 1*PCIeX16, 2*HDMI, 1*eDP, 1*LVDS, 1*Line out and 1*Mic, Amplifier, 1*mSATA+2*SATA3.0, DC 12V power

Accessory Pack

Standard configuration			Selectinve configuration		
Accessory	description	Amount	Accessory	description	Amount
Power cable	2x2Pin DC-IN Power cable	1	DIO cable	DB9 male, 300mm	1
Power+SATA cable	SATA (7+15)PIN, In-line	2	Parallel ports cable	DB25 female, 300mm	1
984 I/O block slice	Full IO opening, 0.5mm stainless steel	1	power supply cable	GPU card auxiliary power supply cable	1
Screw&jumper package	Two M2 screws, two M2.5 screws+two 2.0 and two 2.5 jumper caps (spare)	1	CPU radiator	LGA1700, TDP 65W wind-cooling radiator	1