

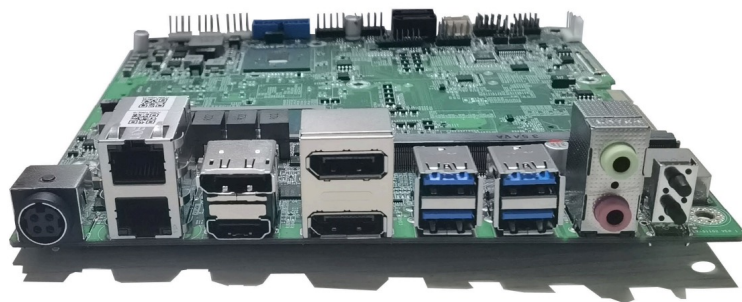
MITX-I985

Intel® Raptor lake P i7-1370P CPU, 2*DDR5 5600MHz SODIMM,
1*HDMI, 3*DP, 1*eDP, 2*LAN, 4*USB3.2, 2*USB3.0, 2*USB2.0, 2*RS232,
1*MXM,1*PCIe X4, DC-IN 18V~26V power

JHCTECH

IoT Computer
Connecting the Dots

Single Board Computer-SBC



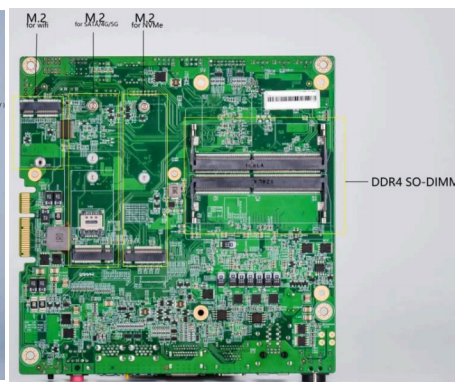
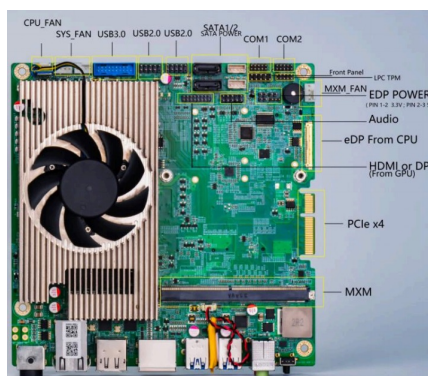
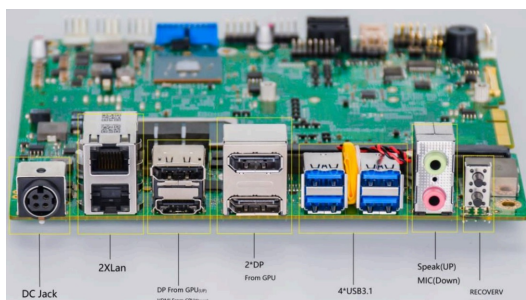
Key Features

- Intel® Raptor lake P i7-1370P CPU
- 2*DDR5 5600MHz SODIMM, up to 96GB
- 3*DP+1*HDMI, 4 independent displays, 1*eDP integrated display output interface
- 2*I225AT dual Gigabit network ports
- 4*USB3.2, 2*USB3.0, 2*USB2.0, 2*RS232
- 1*MXM3.1, 1*PCIe X4, 2*SATA3.0
- 1*M.2 E-Key 2230, 1*M.2 B-Key 2242/2260/2280, 1 x M.2 Key-M(2242 / 2280)
- 1*Line out&1*Mic
- Standard Mini ITX specification, DC-IN 18V~26V power

Description

MITX-I985 is an industrial motherboard equipped with Intel® Raptor lake P Core i7-1370P CPU, designed according to 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® Raptor lake P Core i7-1370P CPU
Chipset	Intel CPU integration
Memory	Dual-channel 2*DDR5 5600MHz SODIMM memory, up to 96GB
Expansion	1*MXM 3.1 (PCIeX6 signal) support Type A/B, MXM discrete graphics card can be replaced freely 1*PCIe X4(Gold Finger), 1*M.2(2242/2260/2280) B-KEY w/ SIM, support 5G NR or 4G LTE wireless router module 1*M.2 2230 E-KEY, support Wifi5/BT5.0 1*M.2(2242 / 2280) M-KEY, for PCIe/SATA
Graphics	Intel® Iris® Xe Graphics eligible, support DirectX 12.1,OpenGL 4.6, OpenCL 3.0, Highest resolution: HDMI is 4096*2304@60Hz, eDP is 4096*2304@60Hz, DP is 7680*4320@60Hz
Audio	Realtek ALC897 HD audio chip, support 5.1 channels
LAN	2*Intel® I225AT, 10M/100M/1000M adaptive, support WOL
Storage	2*SATA3.0(7 Pins)
Rear I/O	2*LAN (RJ45 w/LED); 4*USB3.2 (Type A); 1*HDMI(CPU); 3*DP(MXM GPU); 1*Line out+1*Mic (3.5mm phone jack)
Internal I/O	2*USB3.0(2*10Pin DuPont pin); 2x2*USB2.0 (2x2*5Pin DuPont pins); 2*COM (2*RS232, double 2*5pin DuPont pins); 2*SATA3.0, 1*eDP (From CPU) ; 1*HDMI or DP (From GPU); 1*F_AUDIO(2*5pin DuPont pin), 1*LPC(TPM), 4*FAN(1*CPU_FAN, 2*system_FAN,1*MXM_FAN);
Switch & LED	F_PANEL (Power SW, Reset, Power LED, HDD LED) , Clear CMOS jumper, AT/ATX jumper, RECOVERV+REST jumper
Power Supply	DC-IN 18V~26V, DC-Jack 4pin interface, TDP: TBD
Watchdog Timer	Programmable timeout interrupt or system reset, 1 to 255 seconds
OS Support	Windows 11*IoT enterprise, Windows 10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto

Dimension	(W*H): 170*170mm, Mini ITX form
Operating Temperature	0 ~ 50°C
Storage Temperature	-20°C~70°C
Storage Humidity	10~95%@40°C, Non-condensing
EMC/Certification	CE/FCC Class A

Ordering Info

Model No.	CPU	Introduction
MITX-I985-S001	Intel® Raptor lake P i7-1370P CPU	2*DDR5 5600MHz SODIMM, 2*LAN, 4*USB3.2, 2*USB3.0, 2*USB2.0, 2*RS232, 1*MXM, 1*HDMI, 4*DP, 1*eDP, 1*LPC, 1*Line out和1*Mic, 2*SATA3.0, 1*F_AUDIO, 1*M.2 2230E-Key , 1*M.2(2242/2260/2280) B-Key , 1 x M.2(2242 / 2280) Key-M, DC-IN 18V~26V 供电
ECX-317	PCIe× 4 to PCIe×16 to cable	

Accessory Pack

Standard configuration			Selectinve configuration	
Accessory	description	Amount	Accessory	description
Power cable	2x2Pin DC-IN Power cable	1	USB 2.0 cable	Type A One-to-Two, Cable Length 300mm
Power+SATA cable	SATA (7+15)PIN, In-line	2	USB 3.0 cable	Type A One-to-Two, Cable Length 300mm
984 I/O block slice	Full IO opening, 0.5mm stainless steel	1	CPU cooler	Aluminium alloy with 4-wire temperature control fan, TDP 45W air-cooled radiator
Serial cable	DB9 male, 300mm	2		
Screw&jumper package	Two M2 screws, two M2.5 screws+two 2.0 and two 2.5 jumper caps (spare)	1		