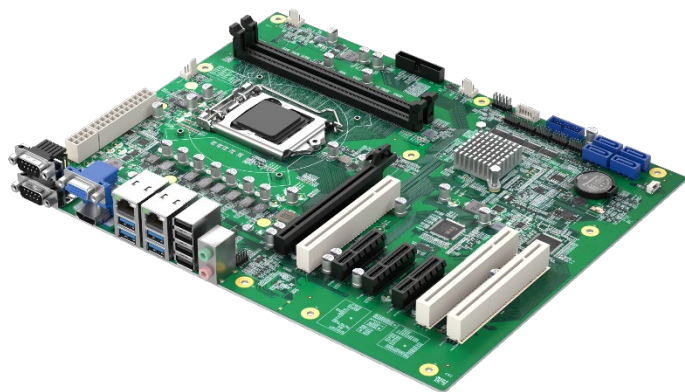




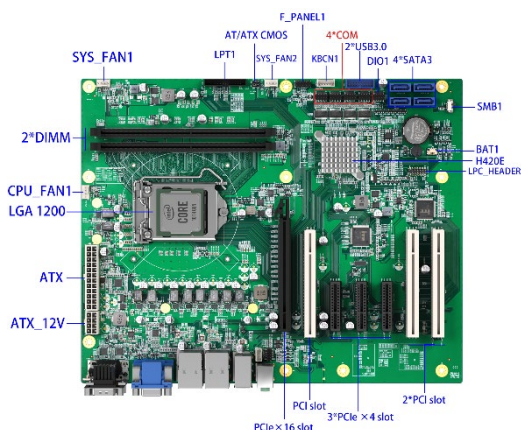
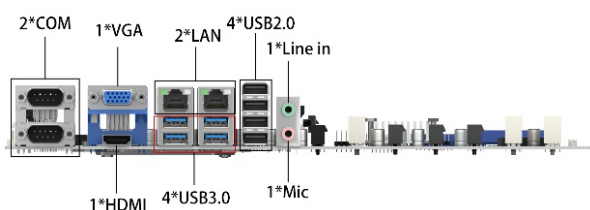
Key Features

- Intel 10th Gen. Cometlake-S Core i9/i7/i5/i3/Pentium /Celeron CPU , Intel H420E Chipset
- Dual channel 2*DDR4 2933MHz DIMM, up to 64GB
- Intel UHD Graphic, 1*VGA+1*HDMI dual independent display
- 1*I219LM Gig. Ethernet+1*I225V 2.5Gig. Ethernet
- 6*USB3.0, 4*USB2.0, 6*COM, 8bit DIO
- 1*PCIeX16, 3*PCI, 3*PCIeX4(X1 signal)
- 4*SATA3.0 6.0Gbps, audio(Opt.), TPM2.0(Opt.)
- 24pin ATX +8pin 12V ATX power

Description

ATX-I971 is powered by Intel® 10th Gen Core i9/i7/i5/i3/Pentium/Celeron processor CPU with Intel H420E chipset. It is designed according to the standard ATX hole size, and is fully adapted to all rack and wall-mounted chassis on the market, and is very suitable for machine vision, CNC machinery, data acquisition and other fields.

I/O View

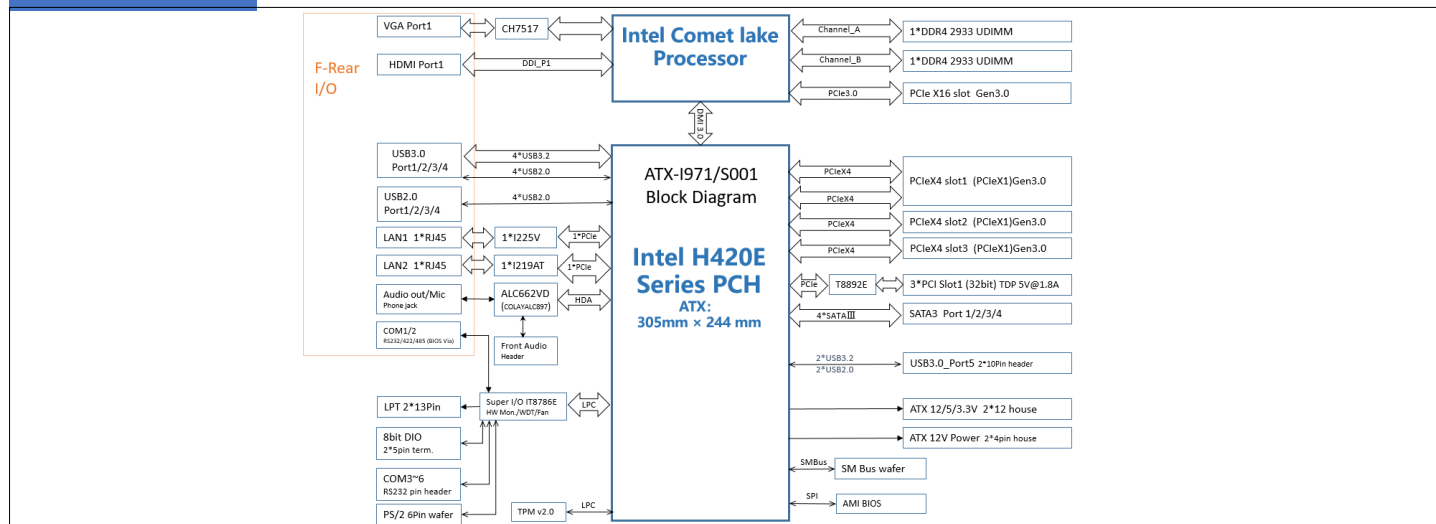


SPEC.

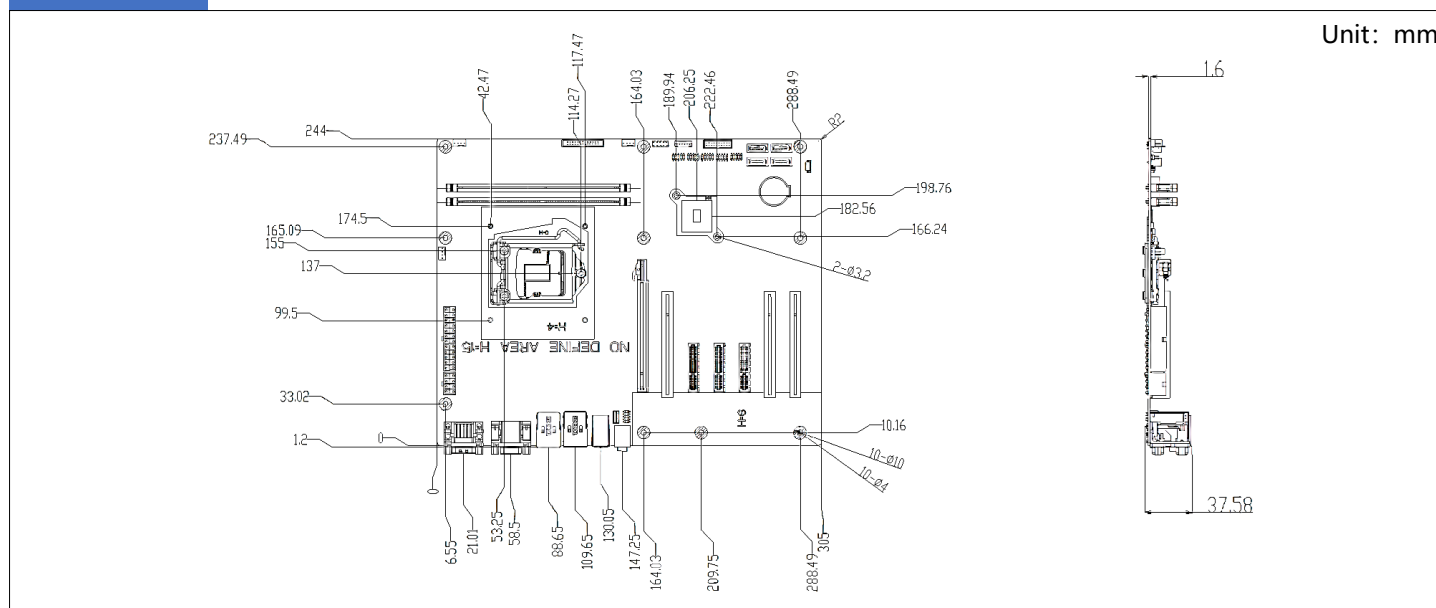
CPU	Intel 10th Gen. Cometlake-S Core i9/i7/i5/i3/Pentium/Celeron CPU , LGA 1200 Socket, up to 125W
Memory	2*288-pin Non-ECC UDIMM , dual channel DDR4 2400/2666/2933MHz, up to 64GB
Expansion	1*PCIe×16 Gen3.0 slot, 3*PCIe×4 Gen3.0 slot (PCIex1 signal, the first slot(×2 signal) can share the other 2 slots signal through BIOS settings, so it can be changed to ×4 signal, at this time the other 2 slots are unavailable), 3*32-bit PCI slot,
Graphics	Intel UHD Graphics, Supports DirectX 12, OpenGL 4.5 and OpenCL 2.1 HW Decode: AVC/H.264, MPEG2, VC1/WMV9, JPEG/MJPEG, HEVC/H265, VP8, VP9 HW Encode: MPEG2, AVC/H264, JPEG, HEVC/H265, VP8, VP9 HDMI max. res. 4096*2160@30Hz, VGA max. res. 1920*1200,60Hz
Audio	Realtek ALC662 controller, 1*Line out+1*Mic, Support 5.1 channel (Opt.)
LAN	1*Intel I225V, 10M/100M/1000M/2.5G self-adapt, support WOL 1*Intel®I219LM, 10/100/1000Mbps, support WOL
Storage	4*SATA3, 6.0Gbps HDD/SSD
Rear I/O	2*LAN(RJ45), 2*RS232/422/485 (DB9), 1*HDMI+1*VGA, 4*USB3.2 Gen1 (5Gb/s)(Type A), 4*USB2.0(Type A), support USB Power to switch between System mode(+5V) and +5VSB mode through jumper 1*Line out+1*Mic 3.5mm phone jack
Internal I/O	8bit GPIO, 1*LPT, 2*USB3.2 Gen1(5Gb/s) pinheader, 1*SM Bus, 4*RS232 pinheader, 4*SATA3, 1*F_PANEL pinheader, PS/2 wafer
Switch & LED	F_PANEL (USB Power jumper, AT/ATX jumper, Clear CMOS jumper, Power LED, SSD/HDD LED)
Power Supply	24-pin ATX/8-pin ATX 12V, max. output power: 280W
Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second
Security	Support Infineon TPM2.0(Opt.)
OS Support	Windows 10, Windows 11, Linux Ubuntu

Dimension	(W*H): 305*244mm
Height	Top Side: 37.58mm; 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 B

Block Diagram



Dimension



Ordering Info

Model No.	Introduction
ATX-I971/S001	Embedded Single Board Computer, Intel® H420E+Cometlake-S LGA1200 CPU, 2*LAN, 6*USB3.0, 4*USB2.0, 6*COM, 3*PCIe, 8bit GPIO, 1*LPT, 1*PCIe X16, 3*PCIe X4(×1 signal, one of the slots can be switched to ×4 signal), 1*HDMI, 1*VGA, 1*Line out, 1*Mic, PS/2, 4*SATA3, Amplifier (Opt.) , 24-pin ATX/8-pin ATX 12V

Accessory Pack

Accessory Introduction	Amount
SATA 7pin cable, 42CM	2
Serial ports cable, 32CM	4
I/O port cable	1