EPI-I920

Intel® Meteor Lake CPU, 1-CH DDR5, HDMI, LVDS/eDP, 2*LAN, 4*COM, 4*USB3.2, Line In, Line Out, DC 9~36V

JHCTECH 物联机万物

Embedded edge AI single-board computer



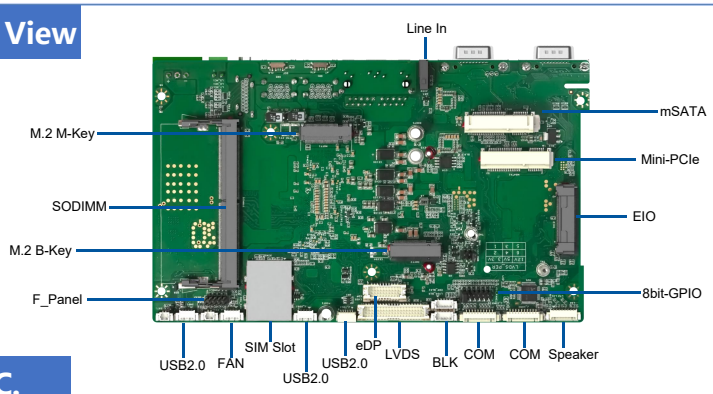
Key Features

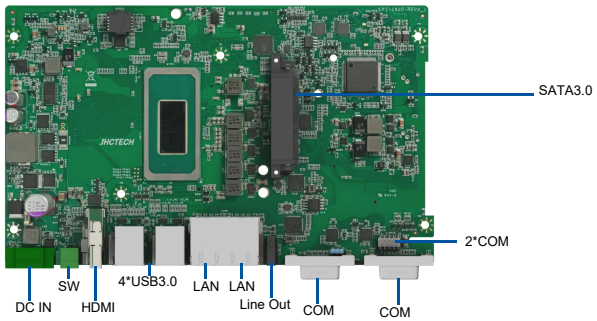
- Intel® Meteor Lake Ultra 5 125U CPU
- 1*DDR5 5600 SODIMM, up to 48GB
- Intel® NPU AI Boost, Intel® Arc™ graphics
- 1*HDMI, 1*LVDS/1*eDP display port
- 2*LAN, 4*COM, 4*USB3.2, 3*USB2.0, 1*8-bit GPIO
- 1*MiniPCIe, 1*M.2 B-Key , 1*M.2 M-Key, 1*SIM slot
- 1*SATA3.0, 1*mSATA, 1*Line in, 1*Line out
- 1* High-speed bus specification extends the interface EIO, supporting TPM 2.0
- DC 9~36V Wide-voltage power supply

Description

EPI-I920 is an edge AI embedded single-board computer equipped with Intel® Meteor Lake CPU. The size of the motherboard module is thin and compact, making it suitable for applications such as intelligent MES system all-in-one machines, equipment management HMI, and AI automation deployment.

I/O View





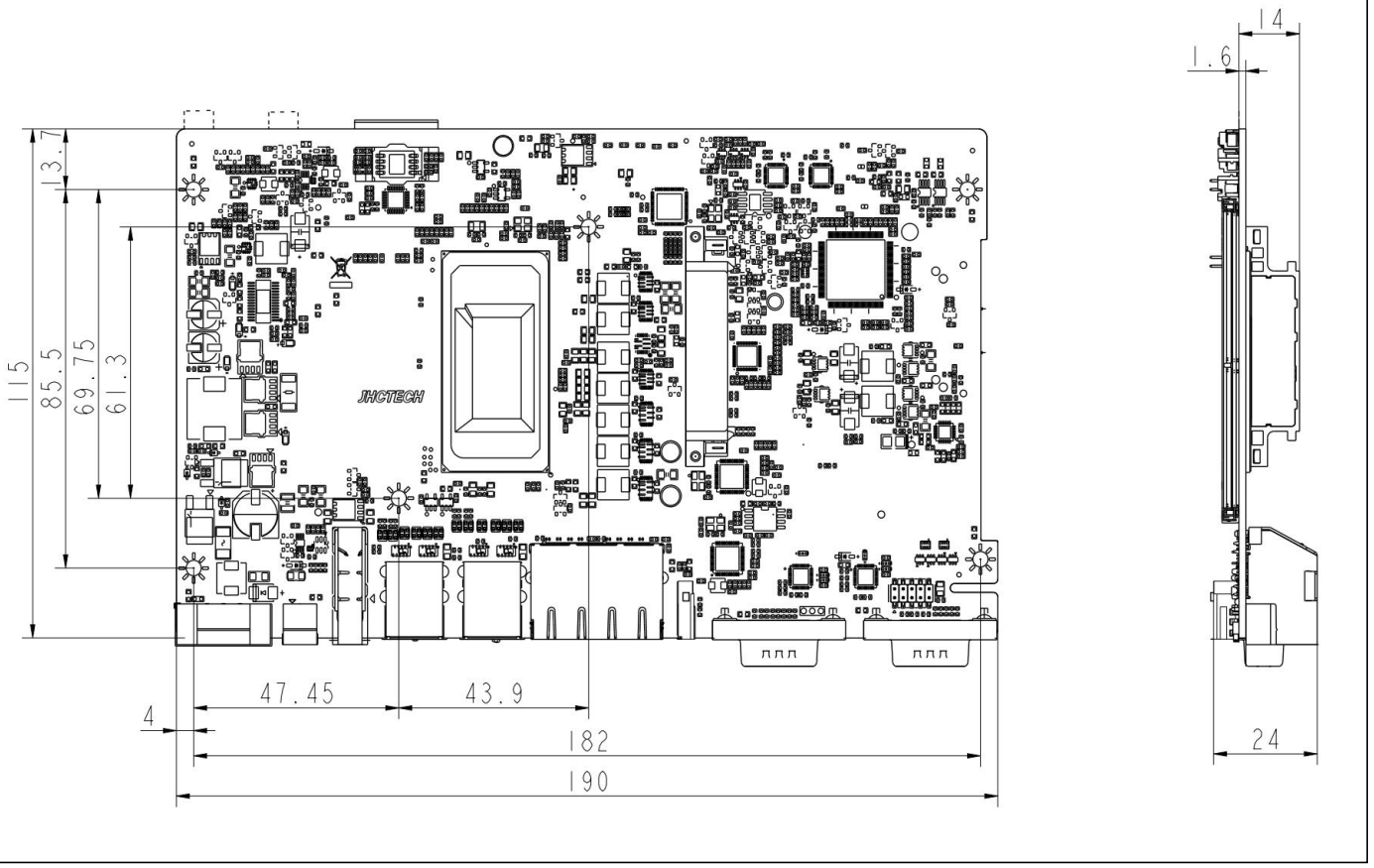
SPEC.

CPU	Processor	Ultra 5 125U
	Cores	12
	Threads	14
	Frequency	2.1~4.3 GHz
	TDP-up	15W
GPU	Graphics	Intel Graphics (4 Xe-cores)
NPU	Peak TOPS	11 TOPS（Int8）
AI Frameworks	OpenVINO™, WindowsML, ONNX RT	
Memory Size	1*DDR5 260-pin SO-DIMM, Up to 5600MHz, 48GB	
System	Display	1*HDMI, 1*LVDS/1*eDP (Opt.)
	Audio	Realtek ALC897 chip for high-definition audio, 7.1-channel sound system
	LAN	2*Intel I226V, 10M/100M/1000M/2.5G
	Storage	1*M.2 M-key, 1*Full size mSATA, 1*SATA3.0
	Real I/O	1*HDMI, 2*LAN (RJ45), 2*RS232/422/485（DB9）, 4*USB3.2 (Type A), 1*Remote SW, 1*DC-IN, 1*Line in, 1*Line out
	OS	Windows 10 64bit, Windows 11 64bit, SUSE, Ubuntu, Wind River, Linux
	Safety	TPM2.0 (Opt.)
	Expansion	1*M.2 M-key, 1*Mini PCIe, 1*SIM card slot, support 4G/5G/LTE/GSM/Wifi/BT/GPS
	EIO	Complies with the JHCTECH standard high-speed interface specification, supporting PCI and PCIeX4 signal expansion cards (Opt.)
	Power	DC 9~36V input, supporting overvoltage, reverse connection protection
	Watchdog	Programmable timeout interrupt or system reset, 1 to 255 seconds
	Control switch	1*AT/ATX SW, 1*Clear CMOS SW

Structure and Environment	Size	190*115*14mm
	Operating Temperature	0 ~ 60℃
	Storage Temperature	-40°C~85°C
	Storage humidity	10~95%@40°C, No condensation
	EMC/Certificate	CE/FCC Class A

Dimension

Unit: mm



Ordering Info

Model NO.	CPU	Description
EPI-I920/S001	Intel® Core Ultra 5 125U	Edge AI single-board computer, Intel® Meteor Lake CPU, 1-CH DDR5,1*HDMI, 1*LVDS/1*eDP, 2*LAN, 4*COM, 4*USB3.2, 1*8-bit GPIO, 1*MiniPCIe, 1*M.2 B-Key , 1*M.2 M-Key, 1*SIM slot, 1*SATA3.0, 1*mSATA, 1*Line In, 1*Line Out, EI/O(Opt.), TPM2.0, DC 9~36V
ECX-168	80-pin EI/O adapter to 1*PCIeX4 slot (X4 signal)	
ECI-169	80-pin EI/O conversion for 1* 32-bit PCI slot	
PA-60DC12	AC/DC power adapter, DC12V@5A, 60W	
PA-120DC19	AC/DC power adapter, DC19V@6.32A ,120W	