

# KMDA-5921-S002

Intel® Gen 8<sup>th</sup> /9<sup>th</sup> Coffee Lake LGA1151 series CPU , 3\*LAN, 6\*USB3.1, 1\*VGA, 2\*DP, 2\*4K Displays, 2\*SATA3.0, 4\*PCIe slots, wide power input DC9-36V.

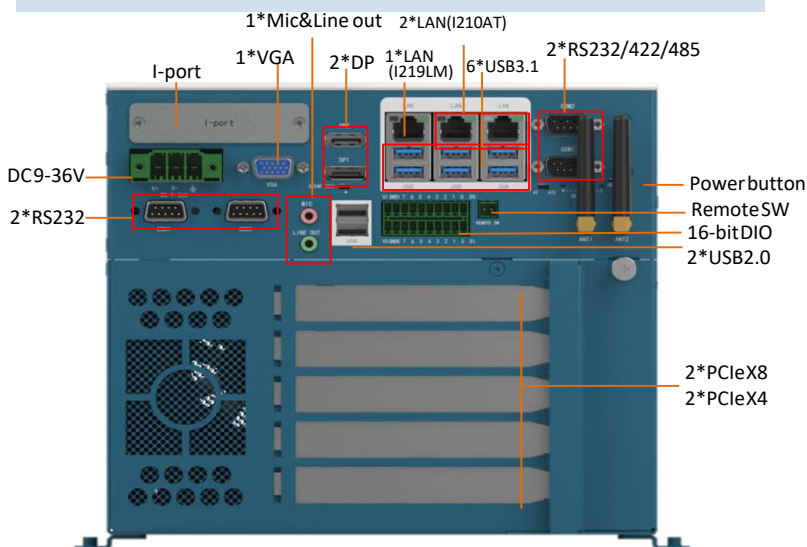


## Key Features

- Intel® Intel® gen.8th/9th Coffee lake LGA1151 series CPU
- Intel® Q370 PCH
- 4\*DDR4 2400/2666MHz SODIMM, dual channel, up to 128GB
- 2\*DP+1\*VGA, 3 independent displays, 3\*LAN, support Intel® iVpro, 6\*USB3.1, 2\*USB2.0, 4\*COM, 16-bit Iso.DIO
- 1\*full size Mini PCIe with SIM slot, support 4G&Wifi/BT
- 2\*PCIe X8, 2\*PCIe X4 or 1\*PCIe X16, 1\*PCIe X4, 2\*32-bit PCI expansion, Support a variety of high-speed expansion function cards
- 1\* M.2 3052 B-Key with SIM slot, support 5G, 1\*M.2 E-key 2230, support WiFi 6/BT 5.0
- 2\*SATA3.0 support RAID0.1, 1\*M.2 2280 M-Key, support NVME
- Wide power input DC 9-36V, With short circuit, over voltage and over current protection



KMDA-5920 is a new fan-less and high-performance box computer by JHC. It powered by Intel® Gen 8<sup>th</sup> /9<sup>th</sup> Coffee Lake series processor, Q370 PCH, 4\*DDR4 2400/2666MHz, dual channel, up to 128GB. 1\*VGA+2\*DP, 3 independent displays, 3\*LAN, 6\*USB3.1, 2\*USB2.0, 1\*full size Mini PCIe with SIM slot, support 4G&Wifi/BT, 1\* M.2 3052 B-Key with SIM slot, support 5G, 1\*M.2 E-Key support WiFi 6. Multichannel PCIe standard slot, support a variety of high-speed expansion interface modules. 1\*M.2 2280 M-Key support NVME, 2\*2.5 "SATA3.0, support RAID0.1. Rich expansion flexibility, industrial level product design which is very suitable for industrial automation, AI edge computing, small intelligent workstations, multimedia service systems, high-precision machine vision and so on.



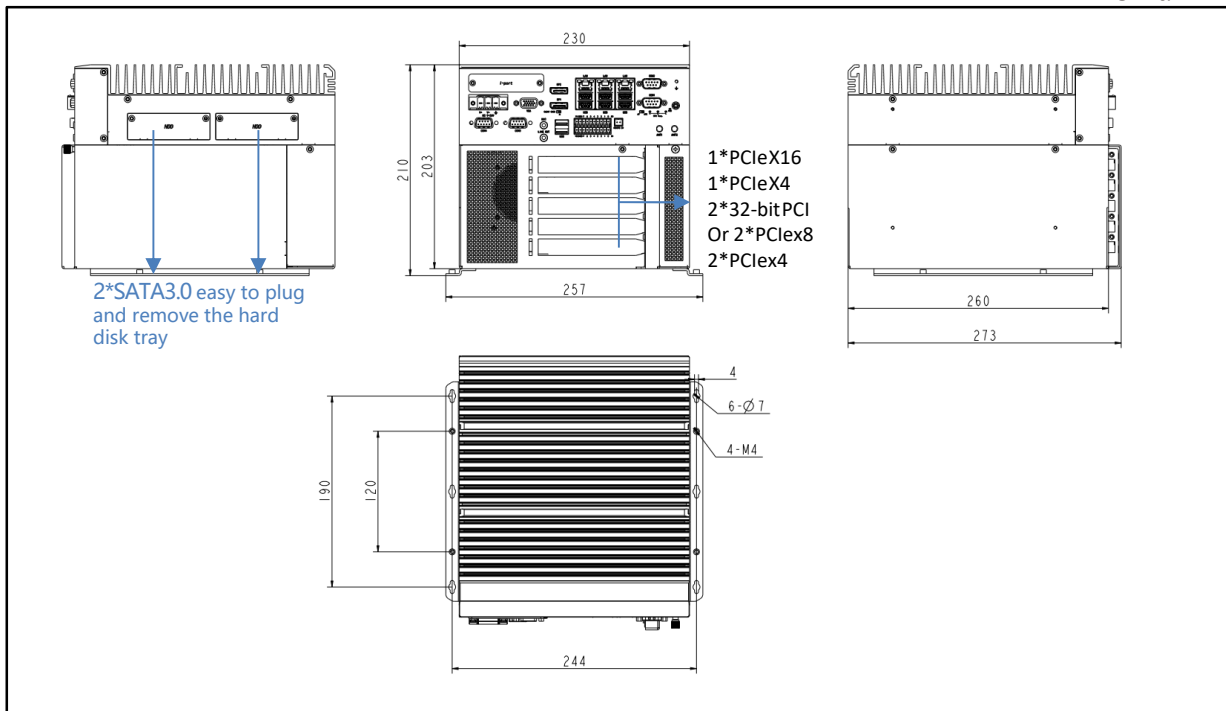
## SPEC.

System	CPU	Intel® Coffee lake 9th/8th-Gen Core™ i7/i5/i3/Pentium/Celeron LGA1151 processor, up to 8C/16T
	Chipset	Intel® Q370 PCH
	System Memory	4*260-Pin SODIMM, DDR4 2666/2400MHz, dual channel, up to 128GB
	Expansion	1*full size Mini PCIe(PCle+USB signal, can set as mSATA via BIOS) with SIM slot, support 4G&Wifi/BT 1*M.2 E-Key 2230, support WiFi6/BT5.0, 1* M.2 3052 B-Key with SIMslot, support 5G 2*PCIe X16 (x8 signal)+2*PCIe X4 or 1*PClEx16+1*PClEx4+2*32-bit PCI support max1*150W GPU (the length of the GPU must be less than 210mm)+ 2*75W AI Module (the length of the module must be less than 230mm)
	Intel Graphics	Intel UHD Graphics, Supports DirectX12, OpenGL 4.5 and OpenCL 2.1 or PCIe X16 GPU DP1.2 max. res. 4096*2304@60Hz, VGA max. res. 1920*1200@60Hz, 3 independent displays
	Audio	Optional support Realtek ALC662VD controller, Audio out and MIC, support 5.1 channel
	LAN	2*Intel I210AT PCIe Gig. Ethernet; 10/100/1000Mbps; 1*Intel I219LM PCIe Gig. Ethernet, support iAMT12.0
	Storage	2*2.5" SATA3 easy to plug and remove the hard disk tray, support Raid 0/1, support max 6G bit/s transmission rate; 1*M.2 2280 M-Key, PClEx4 Gen3.0, support NVME
	DIO	16-bit iso DIO, 8-bit Iso. DI(High:5-24V,Low:0-1.5V) and 8-bit Iso. DO(200mA)
	I-Port	Optional support USB2.0, 16 bit DIO, or Mini PCIe and M.2, ect serial
	I/O ports	3*RJ45 Gig-LAN; 6*USB3.1 gen2.0 TYPE A, support max 10G bit/s transmission rate; 2*USB2.0 16-bit iso DIO 2*RS232/422/485 set via BIOS, 2*RS232 1*Audio-out and 1*MIC 1*VGA+2*DP
	LED	1*Power LED, 1*HDD LED,3*CPU LED
	ControlSW	1*Power SW, 1*Remote SW, 1*AT/ATX SW, 1*Clear CMOS SW
	PowerSupply	DC IN 9-36V 3-pin Term. 7.62mm, With short circuit, over voltage and over current protection Power Consumption:48.5W(I7-9700 CPU/16G DDR4/128G SSD)
	TCM/TPM	Optional support
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second
OS Support	Windows* 10 Enterprise & IOT Enterprise (64 位) (CFL-R) Ubuntu* 、 SuSe*、 Redhat Enterprise* 1,2 (Kernel 4.14) (CFL-R) Wind River* VxWorks* 7(CFL-R)	

Mechanical	Structure	Aluminum-magnesium alloy, SGCC frame
	Color	White+blue
	Mounting	Desktop Mounting
	Dimension	(W*H*D): 230*273*203mm
	Netweight	7.25kg
Environmental	Operating temperature	-20~60°C, SSD, air flow -10~55°C, HDD, air flow
	Storage Temperature	-40°C~85°C
	Storage Humidity	10~90%@40°C, Non-condensing
	Vibration	5grms/5~500Hz/random/in working(SSD); 1grms/5~500Hz/random/in working(HDD)
	Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
Certification/EMC	CE/FCC ClassB	

## Dimension

Unit:mm



## Ordering Info.

Model No.	Introduction
KMDA-5921/S002	Fanless box computer Intel® gen.8th/9th Coffee lake LGA1151 series , Q370 PCH, 3*LAN, 6*USB3.1, 2*USB2.0, 4*COM, 1*Mini PCIe, M.2 E-Key, 1*M.2 B-Key, 2*PCIe X16 (x8 signal)+2*PCIe X4 Or 1*PClex16+1*PClex4+2*32-bit PCI, 1*VGA, 2*DP, Audio out, Mic, 16-bit iso DIO, 2*2.5" SATA, 1*M.2 2280 M-Key, DC 9-36V.
PA-120DC19	AC/DC power adapter, DC19V/6.32A,120W
PA-220DC24	AC/DC power adapter, DC24V@9.17A ,220W
PA-300DC24	AC/DC power adapter, DC24V@12.5A ,300W
AC-140	8-way isolating input and 8-way power relay output terminal board, DC 12V, signal is 16-bit TTL GPIO

## Support CPUList

Series	Intel® Core™				Intel® Pentium®		Intel® Celeron®	
9th Gen	I7-9700	8C/8T	I7-9700T	8C/8T	G5500	2C/4T	G4950	2C/2T
	I5-9500	6C/6T	I5-9500T	6C/6T				
	I3-9100	4C/4T	I3-9100T	4C/4T				
8th Gen	I7-8700	6C/12T	I7-8700T	6C/12T	G5400	2C/4T	G4930	2C/2T
	I5-8500	6C/6T	I5-8500T	6C/6T				
	I3-8100	4C/4T	I3-8100T	4C/4T				

\*All specifications and photos are subject to change without notice.

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