

KMDA-5921-S002

Industrial Computer

with Intel® 8th/9th Gen. CPU with 3x LAN, 16-bit Iso. DIO, 2x PCIe x4, 2x PCIe x8



- Intel® 8th/9th Gen. Coffee Lake LGA1151 CPU
- 4x DDR4 2400/2666MHz SO-DIMM, dual channel up to 128GB
- 1x VGA, 2x DP for dual 4K displays
- 3x LAN, 4x COM, 16-bit Iso. DIO
- 6x USB 3.1, 2x USB 2.0
- 1x M.2 3052 Key B with SIM slot support 5G
1x M.2 2230 Key E, support WiFi6/BT 5.0
- 1x miniPCIe, 1x SIM card slot, support 4G LTE/WiFi/BT
- 2x PCIe x8, 2x PCIe x4 or 1x PCIe x16,
1x PCIe x4, 2x32-bit PCI expansion
- 2x SATA3.0, 1x M.2 2280 Key M for NVME SSD
- 9~36V DC, Wide power input
- Aluminum chassis, fanless CPU design
- Applications: Industrial automation, AI Edge computing, machine vision and others



	Items	Descriptions
System	CPU	Intel® 8 th /9 th Gen. Coffee Lake Core™ i3/i5/i7/Pentium®/Celeron® LGA1151 CPU up to 16T
	Chipset	Intel® Q370 PCH
	Memory	4x 260-Pin, DDR4 2400/2666MHz SO-DIMM, dual channel up to 128GB
	Expansion	1x full size miniPCIe (PCIe & USB, can set as mSATA via BIOS) with SIM slot, support 4G/WiFi/BT module, 2x PCIe x16 (x8 signal) and 2x PCIe x4 or 1x PCIe x16+1x PCIe x4 and 2x32-bit PCI, support max 1x 150W GPU (the length of the GPU must be less than 210mm) and 2x 75W AI Module (the length of the module must be less than 230mm)
	Graphics	Intel® UHD Graphics for 8 th /9 th Gen. Intel® CPU, supports DirectX12, OpenGL 4.5 and OpenCL 2.1 or PCIe x16 GPU Supports 3 independent display, 2x DP 1.2 max resolution 4096x2304@60Hz, 1x VGA max. res. 1920x1200@60Hz
	LAN	2x Intel® I210AT PCIe Gb Ethernet, 10/100/1000Mbps 1x Intel® I219LM PCIe Gb Ethernet, support iAMT12.0
	Storage	2x 2.5" SATA 3.0, support Raid 0,1, support max 6G bit/s transmission rate 1x M.2 2280 Key M, PCIe x4 Gen3.0, support NVME
	Digital IO	16-bit Iso. DIO, 8-bit Iso. DI(high: 5-24V, low: 0-1.5V) and 8-bit Iso. DO(200mA)
	I/O Ports	3x RJ45 Gb LAN 6x USB 3.1 gen2.0 TYPE A support max 10G bit/s transmission rate, 2x USB 2.0 2x RS232/422/485 set via BIOS, 2x RS232 2x DP, 1x VGA 1x SIM slot 1x Audio out, 1x Mic
	I-port	optional support USB 2.0, 16-bit DIO or miniPCIe and M.2 and other functional module interfaces
	LED	1x Power LED, 1x HDD LED, 3x CPU temperature control LED (Red is warning, Yellow is high, Green is normal)
	Control SW	1x Power button, 1x Remote SW, 1x AT/ATX Select SW, 1x Clear CMOS Select SW
	Power Supply	DC 9~36V Input, 3-pin terminal connector, with short circuit, over voltage and over current protection Consumption: 48.5W (i7-9700 CPU/16G DDR4/128G SSD)
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 seconds
OS Support	Windows 10 Enterprise & IoT Enterprise, Linux: SUSE, Ubuntu, Red Hat Enterprise 1.2; Wind River, VxWorks 7	
Mechanical	Structure	Aluminum-magnesium alloy, SGCC frame
	Color	White and blue
	Mounting	Desktop mounting
	Dimension (WxDxH)	230x273x203mm
	Net weight	7.25kg
Environmental	Operating Temperature	-20°C ~ 60°C -with wide operating temperature SSD, airflow / 10°C ~ 55°C regular SSD

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	Items	Descriptions
	Storage Temperature	-40°C ~ 85°C
	Storage Humidity	10~90%@40°C, non-condensing
	Vibration	5 grms/5~500Hz/random/in working (SSD); 1 grms/5~500Hz/random/in working (HDD)
	Shock	50g peak acceleration (11ms duration) (SSD); 20g peak acceleration (11ms duration) (HDD)
	EMC	CE / FCC Class B

Ordering Information

Part No.	Descriptions
KMDA-5921/S002	Industrial Computer with Intel® Gen.8 th /9 th Coffee Lake LGA1151 series, Q370 PCH, 3x LAN, 6x USB3.1, 2x USB2.0, 4x COM, 1x miniPCIe, M.2 E-Key, 1x M.2 B-Key, 2x PCIe x16 (x8 signal) and 2x PCIe x4 or 1x PCIe x16 and 1x PCIe x4 and 2x 32-bit PCI, 1x VGA, 2x DP, Audio out, Mic, 16-bit Iso DIO, 2x 2.5" SATA, 1x 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

Supported CPU's

Series	Intel® Core™				Intel® Pentium®		Intel® Celeron®	
	i7-9700	8C/8T	i7-9700T	8C/8T	G5500	2C/4T	G4950	2C/2T
9 th Gen.	i5-9500	6C/6T	i5-9500T	6C/6T				
	i3-9100	4C/4T	i3-9100T	4C/4T				
	8 th Gen.	i7-8700	6C/12T	i7-8700T	6C/12T	G5400	2C/4T	G4930
i5-8500		6C/6T	i5-8500T	6C/6T				
i3-8100		4C/4T	i3-8100T	4C/4T				

Dimension

Unit: mm

