

KMDA-5610

Fanless Industrial Computer

with Intel® Core™ i3/i5/i7/Pentium®/Celeron® CPU

with 2x LAN, 4x COM, 16-bit iso. DIO, 6x USB, M.2, 3x Display ports



- Intel® 8th/9th Gen. Coffee Lake SoC
- 2x DDR4 2400/2666MHz SO-DIMM, up to 64GB
- 1x HDMI, 1x DP, 1x VGA
- 2x LAN, 4x COM, 16-bit iso. DIO
- 4x USB 3.1, 2x USB 2.0
- 1x M.2 2230 Key E, support WiFi 6/BT 5.0
- 1x mSATA with SIM card slot, support 4G LTE/WiFi/BT
- 2x 2.5" SATA 3.0
- 9~36V DC, Wide power input
- Aluminum chassis, fanless design
- Applications: AI Edge, machine vision and others



	Items	Descriptions
System	CPU	Intel® Coffee Lake 9 th /8 th Gen. Core™ i3/i5/i7 Pentium® / Celeron® LGA1151 CPU, up to 8C/16T
	Chipset	Intel® H310 PCH
	Memory	2x 260-Pin SO-DIMM, DDR4 2400/2666 MHz, up to 64GB
	Expansion	1x M.2 2230 Key E, support of WiFi 6/BT 5.0 module
	Graphics	Intel® UHD Graphics for 8 th /9 th Gen. Intel® Processors, supports DirectX11.1, OpenGL 5.0 and OpenCL 2.1 or PCIe GPU, DP 1.2 max resolution 4096x2304@60Hz, HDMI max resolution 4096x2304@24Hz, VGA max. res. 1920x1200@60Hz
	LAN	1x Intel® I210AT PCIe Gb Ethernet, 10/100/1000Mbps adaptive 1x Intel® I219LM PCIe Gb Ethernet
	Storage	2x 2.5" SATA 3.0, support max 6Gbit/s transmission rate 1x mSATA full size: support SATA+USB signal: with SIM slot: support 4G
	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	2x RJ45 Gb LAN 16-bit iso. DIO 4x USB 3.1, 2x USB 2.0 2x RS232/422/485 set via BIOS, 2x RS232 1x DP, 1x HDMI, 1x VGA 1x Audio out, 1x Mic
	I-port	Optional support USB 2.0, 16-bit DIO or serials
	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 AT/ATX Select SW, 1x Clear CMOS Select SW, 1x Remote SW
	Power Supply	DC 9~36V Input, 3-pin terminal connector, Consumption: TDP 96W (i7-8700 CPU/32G DDR4/128G SSD)
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 seconds
OS Support	Windows 10 Enterprise & IOT Enterprise (64bit), Linux: SUSE, Ubuntu, Red Hat Enterprise 1,2 (Kernel 4.14); Wind River VxWorks 7	
Mechanical	Structure	Aluminum-magnesium alloy, SGCC frame
	Color	White and blue
	Mounting	Desktop mounting
	Dimension (WxDxH)	230x267.3x92mm
	Net weight	5.1kg
Environmental	Operating Temperature	-20°C ~ 65°C SSD, airflow / -10°C ~ 55°C regular HDD, airflow
	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

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Ordering Information

Type	Descriptions
KMDA-5610/S001	Fanless Industrial Computer, Intel® Coffee Lake 9th/8th Gen. Core™ i3/i5/i7 Pentium® / Celeron® LGA1151 CPU, 2x DDR4 SO-DIMM, 1x HDMI, 1x DP, 1x VGA, 1x Audio out, 1x Mic, 2x LAN, 4x USB3.1, 2x USB2.0, 4x COM, 16-bit DIO, 1x M.2, 1x mSATA with SIM slot, 2x 2.5" SATA, DC9~36V
PA-120DC19	AC/DC power adapter, DC19V/6.32A, 120W

Support CPUs

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				

Dimension

Unit: mm

