

KMDA-3301

Fanless Industrial Computer

with Intel® 11th Gen. Tiger Lake-U SoC, 3x LAN, 2x COM, 8-bit DIO



- Intel® Core™ i3/i5/i7/Celeron® CPU
- 2x DDR4 3200 MHz SO-DIMM, up to 64GB
- 1x HDMI, 1x DP, for 8K+4K dual display output
- 3x LAN, iAMT13.0 support, 2x COM, 8-bit DIO
- 2x USB 3.2, 4x USB 2.0
- 1x M.2 3052 Key B with SIM card slot support 5G NR module
- 1 M.2 M-Key, 1x mSATA, 1x SATA3.0
- 9~36V DC, with short circuit, over voltage and over current protection
- Aluminum chassis, fanless design, Desk mounting or DIN-Rail mounting support
- Applications: C-V2X MEC computing, AGV, IoT, machine vision and others

	Items	Descriptions
System	CPU	Intel® Core™ i3-1115G4(1.7GHz up to 4.1GHz, dual-core processor, TDP 12W), Intel® Core™ i5-1145G7 (2.6GHz up to 4.4GHz, quad-core processor, TDP 12W), Intel® Core™ i7-1185G7 (3GHz up to 4.8GHz, quad-core processor, TDP 12W), Intel® Celeron® 6305 (1.8GHz, dual-core processor, TDP 15W)
	Chipset	integrated in SoC
	Memory	2x DDR4 SO-DIMM, 3200 MHz, up to 64GB
	Expansion	1x full size miniPCIe (PCIe x1 & USB 2.0), support WiFi/BT module, 1x M.2 3052 B-Key, with SIM slot, PCIe x1 & USB2.0, support 4G LTE, 5G NR module 1x M.2 2280 M-Key, PCIe x2 Gen4.0 signal, support high speed signal function card
	Graphics	Intel® UHD Graphics or IRIS® Xe Graphics, supports Intel® DL boost deep learning technology, DirectX 12.1, OpenGL 4.6 and OpenCL 2.0 1x DP 1.4 max resolution 7680x4320@60Hz 1x HDMI 2.0 max resolution 4096x2304@60Hz
	LAN	3x Intel® I225V, 10/100/1000Mbps/2,5G self-adaptive, support iAMT13.0
	Storage	1x 2.5" SATA 3.0 1x mSATA full size, support AHCI 1x M.2 2280 M-Key NVME (PCIe x2 Gen 4.0)
	Digital IO	8-bit DIO (2x5Pin phoenix terminal)
	I/O Ports	3x RJ45 2,5 Gb LAN with anti-dust rubber screw hole 2x USB 3.2 (Type A Gen 2.0 one of them with anti-dust rubber screw hole), max support 10Gbps transport speed 2x USB2.0 (Type A, one of them with anti-dust rubber screw hole) 1x USB2.0 (Type A) internal, 1x USB2.0 internal pin header 2x RS232/422/RS485 (DB9 Male) 1x MIO (opt. support internal expansion module) 1x DP, 1x HDMI 1x SIM slot 1x Audio out, 1x Mic
	I-port	1x I-port reserved interfaces, can support internal 1x USB 2.0 or miniPCIe, M.2 and other functional module interfaces (such as dual Gig-LAN module, Can bus or COM ect)
	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, TDP: TBD
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 seconds
OS Support	Windows 10, Linux: SUSE, Ubuntu; Wind River	
Mechanical	Structure	Aluminum chassis, SGCC frame
	Color	Blue-white grey
	Mounting	Desktop or Din-Rail (opt.) mounting
	Dimension (WxDxH)	250x154x61,9mm
	Net weight	2.55kg

All data is for information purposes only and not guaranteed for legal purposes. Subject to change without notice. Information in this datasheet has been carefully checked and is believed to be accurate; however, no responsibility is assumed for inaccuracies. All brand or product names are trademarks or registered trademarks of their respective owners.

	Items	Descriptions
Environmental	Operating Temperature	-20°C ~ 65°C -with wide operating temperature SSD, airflow / 0°C ~ 50°C regular SSD
	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.	CPU	Descriptions
KMDA-3301/S001	Intel® Core™ i7-1185G7	Fanless Industrial Computer, 2x DDR4 SO-DIMM, 1x HDMI, 1x DP, 1x Audio out, 1x Mic, 3x LAN, 2x USB3.2, 4x USB2.0, 2x COM, 8-bit DIO, 1x M.2, 1x miniPCIe, 1x M.2 B-Key with SIM slot, 1x M.2 M-Key, 1x MIO, 1x I-Port, 1x mSATA, 1x 2.5" SATA bay, DC9~36V
KMDA-3301/S002	Intel® Core™ i5-1145G7	
KMDA-3301/S003	Intel® Core™ i3-1115G4	
KMDA-3301/S004	Intel® Celeron® 6305	
PA-60DC12	AC/DC power adapter, DC 12V/5A 60W	

Dimension

Unit: mm

