KMDA-3305

Fanless Industrial Computer
with Intel® 11th Gen. Tiger Lake-U SoC, 9x LAN, 6x COM, 16-bit DIO

- Intel® Core™ i3/i5/i7/Celeron® CPU - Tiger Lake-U
- 1x DDR4 3200 MHz SO-DIMM, up to 32GB
- 2x HDMI, 4K display output
- 9x GbE, 6x COM, 16-bit iso DIO
- 4x USB 3.2, 2x USB 2.0
- 2x RS232/485, 2x RS232, 2x RS485, 2x CAN
- M.2 2280 Key M, supports NVME storage
- MiniPCIe with SIM card slot, supports 4G module
- MiniPCIe, supports functional cards such as CAN, optional switch to mSATA
- mSATA full size for storage
- 9~36V DC, with short circuit, over voltage and over current protection
- Fanless design, Desk or DIN-Rail mounting

	Items	Descriptions
System	CPU	Intel® Core™ i3-1115G4 (1.7GHz up to 4.1GHz, 2C, 4T, TDP 12W) Intel® Core™ i5-1135G7 (900MHz up to 4.2GHz, 4C, 8T, TDP 12W), Intel® Core™ i7-1165G7 (1.2GHz up to 4.7GHz, 4C, 8T, TDP 12W), Intel® Celeron® 6305E (1.8GHz, 2C, 2T, TDP 15W)
	Chipset	integrated in SoC
	Memory	1x DDR4 SO-DIMM, 3200 MHz, up to 32GB
	Expansion	1x full size miniPCIe (PCIe x1 & USB 2.0), support for CAN2.0 and other functional expansion modules, can automatically detect and switch to mSATA 1x mini PCIe, with SIM card slot, PCIe X1+USB2.0 signal, support WiFi/BT module 1x M.2 2280 M-Key, supports NVME storage
	Graphics	Intel® UHD Graphics or IRIS® Xe Graphics, supports Intel® DL boost deep learning technology，DirectX 12.1, OpenGL 4.6 and OpenCL 3.0
	LAN	9x Intel® I210AT, 10/100/1000Mbps adaptive, supports WOL
	Storage	2x mSATA full size, up to SATA6.0 Gbps, one is PCIe x1 signal automatic detection option
	Digital IO	16-bit Iso DIO (2x10Pin phoenix terminal)
	I/O Ports	4x USB 3.2 (Type A Gen 2.0), max support 10Gbps 2x USB2.0 (Type A) 2x CAN 6x COM (COM1/2: 2x RS232, COM3/4: 2x RS485, COM5/6: 2x RS232/485 select and change modes through a dial switch) 2x HDMI, max resolution 4096x2304@60Hz 1x SIM slot 1x Audio out, 1x Mic
	I-port	1x I-port supports functional module interfaces such as miniPCIe to expand ports such as dual network ports, CAN bus or COM
	LED	1x Power 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, RS232/485 mode conversion switch for COM5/6
	Power Supply	DC 9~36V Input, 3-pin phoenix terminal connector, with short circuit, over voltage and over current protection, TDP: TBD
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 seconds
	OS Support	Windows 10/11 IoT enterprise, Android, Linux: SUSE, Ubuntu; Red Hat® Enterprise, Wind River® VxWorks® 7, Yocto
Mechanical	Mechanical	Aluminum rectangular profile cooling housing, SGCC chassis
	Color	Silver grey
	Mounting	Desktop mounting with anti-vibration non-slip foot pads, opt. Din-Rail or Wall mounting
	Dimension (WxDxH)	201.4x112x73.5mm (with tabletop mounting bracket, 170x112x65mm (without mounting bracket)
	Net weight	TBD
Environmental	Operating Temperature	-20°C ~ 60°C –with wide operating temperature SSD, airflow / 0°C ~ 50°C regular SSD
	Storage Temperature	-40°C ~ 85°C

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Environmental	Storage Humidity	10~95%@40°C, non-condensing
	Vibration	5 grms/5~500Hz/random/in working (SSD)
	Shock	50g peak acceleration (11ms duration) (SSD)
	EMC	CE / FCC Class A

Ordering Information

Part No.	CPU	Descriptions
KMDA-3305/S001	Intel® Core™ i3-1115G4	Fanless Industrial Computer, 1x DDR4 SO-DIMM, 2x HDMI, 1x Audio out, 1x Mic, 9x LAN, 4x USB3.2, 2x USB2.0, 6x COM, 16-bit DIO, 2x miniPCIe, 1x M.2 M-Key, 1x I-Port, 1x mSATA, DC9~36V
KMDA-3305/S002	Intel® Core™ i5-1135G7	
KMDA-3305/S003	Intel® Core™ i7-1165G7	
KMDA-3305/S004	Intel® Celeron® 6305E	
PA-60DC12	AC/DC power adapter, DC 12V/5A 60W	

Desk mounting

Din-Rail mounting

Unit: mm

Dimensional drawings: 190.10 mm, 63.51 mm, 73.49 mm, 221.50 mm, 45.00 mm, 40.80 mm, 50.20 mm, 191.60 mm, 206.65 mm, 69.00 mm, 65.00 mm, 114.99 mm, 11.50 mm, 65.00 mm, 8.50 mm, 114.99 mm, 124.08 mm, 217.10 mm, 205.10 mm, 103.00 mm, 90.00 mm, 77.00 mm, 72.00 mm, 48.00 mm, 87.90 mm, 90.30 mm, 67.05 mm, 72.55 mm, 74.85 mm

Front panel: Power Button, DC-IN, 4*USB3.2, 2*HDMI, 2*LAN, 6*LAN, 2*ANT, CAN1/2, DI, DO, COM1/2, COM3/4

Rear panel: LINE OUT, SIM, 1*LAN, 2*USB2.0, Remote SW, MIC, COM5/6