

KMDA-3305

Intel® Tiger lake U Soc CPU, 2*HDMI, 9*LAN, 6*COM, 16bit Iso. DIO,
6*USB, 2*CAN, Audio, 2*Mini PCIe, 1*mSATA, 1*M.2 M-Key,
DC 9-36V.

JHCTECH

IoT Computer
Connecting the Dots

Embedded Box PC--KMDA Series



4K
Ultra HD



FCC

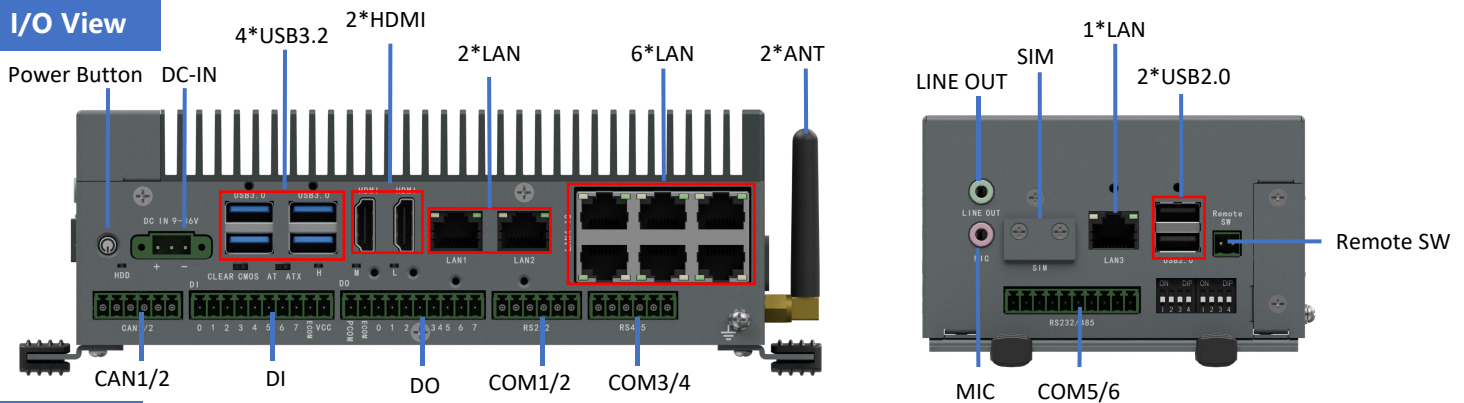
Key Features

- Intel® Tiger lake U Soc CPU
- 1*DDR4 3200MHz SODIMM, up to 32GB
- 2*HDMI 4K display output
- 9*LAN Gigabit Ethernet port, 4*USB3.2, 2*USB2.0
- 16bit Iso. DIO, 2*RS232/485, 2*RS232, 2*RS485, 2*CAN, Audio out + Mic
- 1*M.2 2280 M-Key, supports NVME storage
- 1*Mini PCIe, with SIM card slot, supports 4G wireless module
- 1*Mini PCIe, supports functional cards such as CAN, optional switch to mSATA
- 1 * Full Size mSATA for storage
- DC 9~36V, with short circuit, over voltage and over current protection

Description

KMDA-3305 is a high-performance, small volume, and compact embedded box computer, designed with an SGCC box structure, aluminum rectangular profile cooling shell. Powered by Intel® Tiger lake U Soc series CPU, with rich IO functions, anti-vibration design, suitable for AGV/AMR and traffic gates application scenarios.

I/O View

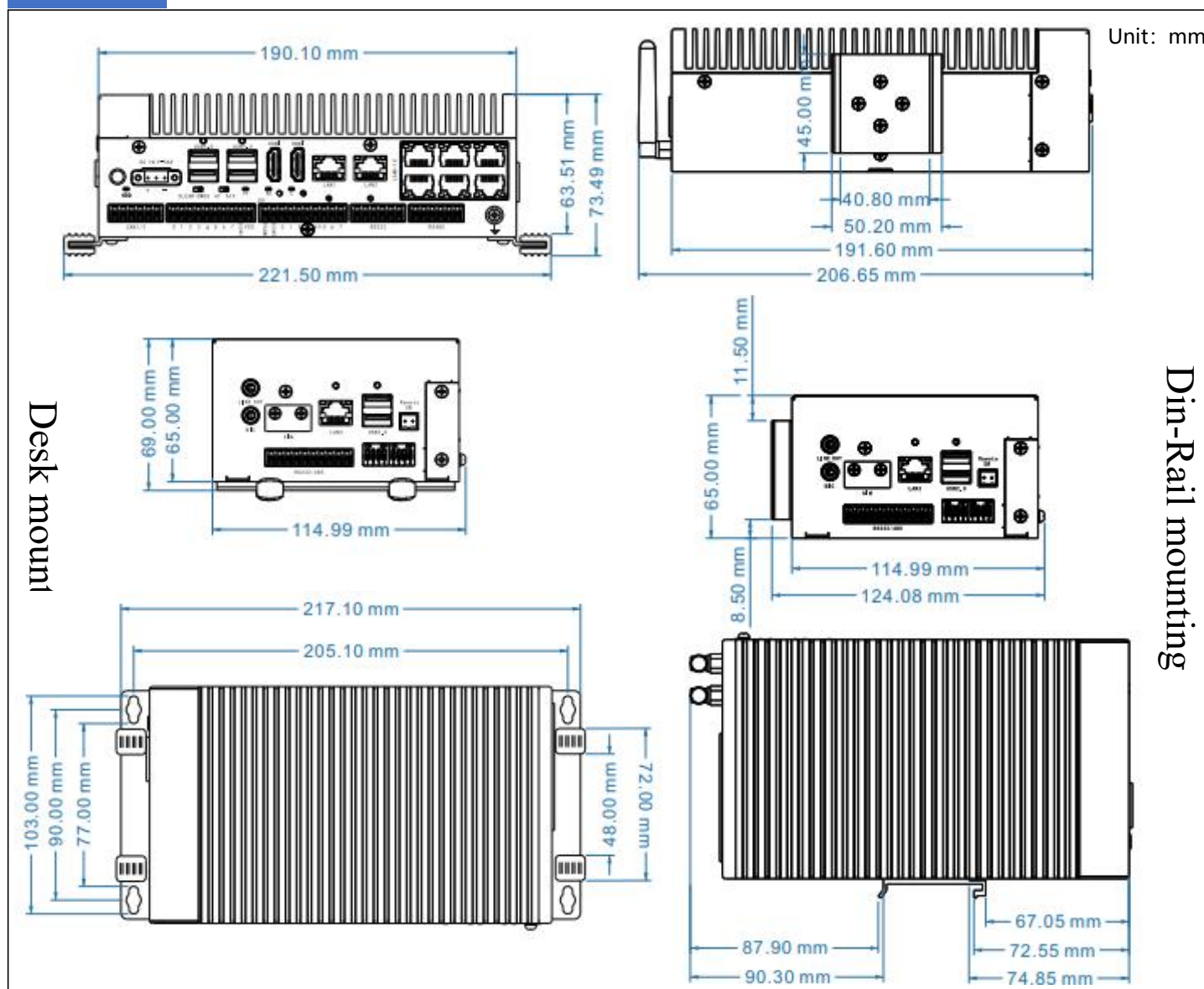


SPEC.

CPU	Intel® Tiger lake U Soc CPU (core i3-1115G4/i5-1135G7/i7-1165G7, Celeron 6305E)
Memory	1*DDR4 SO-DIMM slot, support 3200MHz, up to 32GB
Expansion	1*full size Mini PCIe, with PCIe X1+USB2.0 signal, support for CAN2.0 and other functional expansion modules, can automatically detect and switch to mSATA 1*Mini PCIe, with SIM card slot, PCIe X1+USB2.0 signal, supports wireless function modules such as 4G LTE and BT 1*M.2 2280 M-Key, supports NVME storage
Graphics	Intel UHD Graphics or iRIS® Xe Graphics, DirectX12.1, OpenGL 4.6 and OpenCL 3.0, HDMI max res. 4096x2304@60Hz
Audio	Realtek ALC897 Audio chip, support 5.1 channels, Audio out + Mic
LAN	9*Intel I210AT, 10/100/1000Mbps adaptive, supports WOL
Storage	2*Full Size mSATA, up to SATA6.0 Gbps, one is PCIeX1 signal automatic detection option
I/O Interface	3*LAN; 2*HDMI; Audio out + Mic; 4*USB3.2 (TypeA gen2.0), up to 10.0Gbps, 2*USB2.0 (TypeA); 2*CAN; 6*COM (COM5/6: 2*RS232/485 select and change modes through a dial switch, COM1/2: 2*RS232, COM3/4: 2*RS485); 1*16bit Iso. DIO (two 10Pin Phoenix terminal); 1*SIM card slot
I-port	Supports function modules such as Mini-PCIe to expand ports such as dual network ports, Can bus, and serial ports
LED	1*Power LED, 3*CPU temp LED (Red is warning, Yellow is high, Green is normal)
Control SW	1*Power button w/LED, 1*Remote SW, 1*AT/ATX SW, 1*Clear CMOS SW, RS232/485 mode conversion switch for COM5/6
Power supply	DC 9-36V, 1*3-pin phoenix term, with short circuit, over voltage and over current protection TDP: TBD
Watchdog timer	Watchdog timeout programmable via software 1 to 255 second
OS Support	Windows 11*IoT enterprise, Windows 10*IoT enterprise, Android, SUSE, Ubuntu, Wind River, Red Hat*Enterprise, Wind River VxWorks*7, Yocto

Mechanical	Aluminum rectangular profile cooling housing, SGCC chassis
Color	Silver Gray
Mounting	Desk mounting with anti-vibration non-slip foot pads, opt Din-Rail mounting or Wall mounting
Dimension	(W*D*H): 201.4*112*73.5mm (With tabletop mounting bracket) ; 170*112*65mm (Without mounting bracket)
Net weight	TBD
Operating temperature	-20 ~ 60°C, wide temp SSD, airflow
Storage temperature	-40°C~85°C
Storage humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/ random/in working(SSD)
Shock	50g peak acceleration(11ms duration)(SSD)
EMC and Certification	CE/FCC Class A

Dimension



Ordering Info.

Model No	CPU	Introduction
KMDA-3305-S001	Intel® Core I3-1115G4	1*DDR4 SODIMM, 3*LAN, 4*USB3.2, 2*USB2.0, 6*COM, 16bit Iso. DIO, 2*HDMI, Audio out + Mic, 2*Mini PCIe, 1*M.2 M-key, 1*I-Port, 1*mSATA, DC IN 9-36V.
KMDA-3305-S002	Intel® Core I5-1135G7	
KMDA-3305-S003	Intel® Core I7-1165G7	
KMDA-3305-S004	Intel® Celeron 6305E	
PA-60DC12 component	AC/DC power adapter, DC 12V/5A 60W + X Standard Power Cable	