

Fanless Box Computer KMDA Series

KMDA-3820

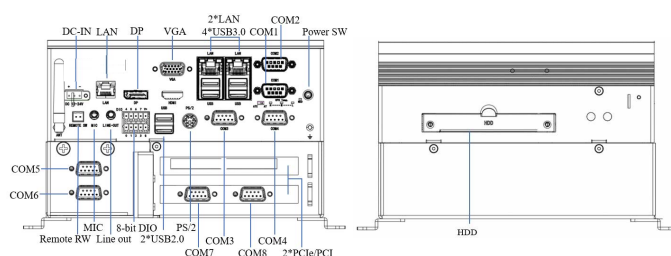
Intel® Skylake-U/Kabylake-U CPU, 2/3*LAN, 4*COM, 7*USB, 8-bit DIO, dual 4K display, 2*PCIe or 2*PCI, TPM2.0, iVpro technology, DC-IN 12~24V.



KMDA-3820 is a new industrial design Box Computer of JHCTECH with aluminum chassis and fanless design. It powered by the Intel® Skylake-U/ Kabylake-U CPU and DDR4 2133MHz memory, up to 16GB. It features gen.9th Intel HD Graphics, DP and HDMI dual 4K display, 2/3*Intel LAN, Integrated 10/100/1000M, 4*COM, 4*USB3.0, 8-bit DIO, 1*Mini PCIe which support 4G and Wifi/BT, 1*2.5" SATA HDD/SSD, 1*mSATA, Dual storage, 2*PCIe or PCI slots, Support TPM2.0 and iVpro technology. With DC 12~24V wide power input. Have-open L-shaped cover, easy to disassemble and install function card or HDD/SSD, widely used for AI, Intelligent Transportation(ITS), and Machine Vision.

Key Features

- Aluminum chassis, fanless design
- Intel® Skylake-U Celeron/Core I3/I5/I7 CPU
- 1*DDR4 2133MHz SODIMM, Up to 16GB
- 1*DP, 1*HDMI, Dual 4K display, 1*VGA
- 2/3*Gig LAN, 4*USB3.0, 3*USB2.0(one inside)
- 4*COM, 8-bit DIO, 1*Audio out, 1*MIC
- 2*PCIe/PCI, 1*F-Mini PCIe
- 1*F-mSATA, 1*2.5" SATA HDD/SSD driver bay
- Support iVpro and TPM2.0
- DC 12~24V Wide Power Input
- Have-open L-shaped cover, easy to expand



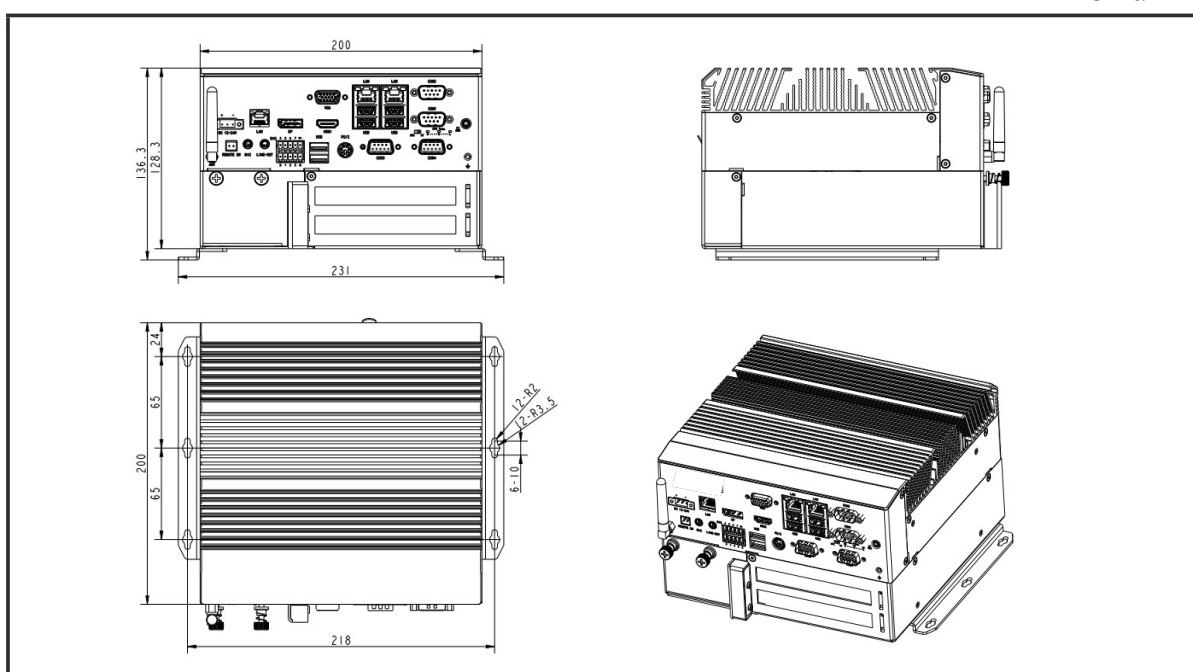
SPEC.

System	CPU	Gen. 6th Intel® Skylake-U: Celeron 3855U Core-U: I3-6100U; I5-6200U; I7-6500U Gen. 7th Intel® Kabylake-U: Celeron 3865U Core-U: I3-7100U; I5-7200U; I7-7500U
	System Memory	1*260-Pin SODIMM, dual channel DDR4 2133Mhz, up to 16GB
	Expansion	1*Full size Mini PCIe(PCieX1+ USB)with SIM slot, support 4G LTE and Wifi/BT 1*Full size mSATA(SATA+ USB2.0) 1*PCIeX4 slot with PCIeX1 signal 1*PCIeX4 slot with PCIeX4 signal, Optional 2*32-bit PCI slots
	Graphics	Gen. 9th Intel® HD Graphics, HEVC/H265 HW HD en/decoder, DP max. res. 4096*2304@60Hz, HDMI max. res. 4096*2304@24Hz, Dual 4K display
	Audio	Realtek ALC662VD controller, support 5.1 channel
	LAN	2*Intel I211AT PCIe Gig. Ethernet, Integrated 10/100/1000M; 1*Intel I219LM PCIe Gig. Ethernet, support iVpro technology
	Keyboard/mouse	PS/2&USB keyboard and mouse
	Storage	1*2.5" SATA HDD/SSD bay, SATA3 6.0Gbps; 1*mSATA, support AHCI
	DIO	8-bit TTL signal, programmable input and output
	I/O ports	3*RJ45 w/LED Gig-LAN 4*USB3.0 Type A; 2*USB2.0 Type A, 1*USB2.0 Type A(Inside) 8-bit DIO:2*5-pin ter., Optional 16-bit DIO 2*RS232/422/485 DB9 male, 2*RS232 DB9 male, 1*PS/2 1*Audio-out, 1*MIC, 3.5mm phone jack 1*HDMI+ 1*DP+ 1*VGA
	LED	1*Power LED, 1*HDD LED, 3*CPU term. LED (Red is warning, Yellow is high, Green is normal)
	Control SW	1*Power button; 1*2pin ter. power-on signal, 1*AT/ATX Select dip
	Power Supply	DC 12~24V Input, 3-pin ter., TDP: 24V/2.44A(I5-7200U 16GB DDR4)
	Watchdog Timer	Watchdog timeout programmable via software 1 to 255 second
	OS Support	Windows 7, Windows 10, Linux Fedora Ubuntu

Mechanical	Structure	aluminum chassis, SGCC frame
	Color	Silver
	Mounting	Desktop Mounting
	Dimension	(W*H*D) : 200*200*128.3mm
	Net weight	3.65kg
Environmental	Operating temperature	-20°C~70°C – Fanless with wide operating temp.SSD, airflow -10°C~50°C – Fanless with 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)
	Certification/EMC	CE/FCC Class A

Dimension

Unit:mm



Ordering Info.

Model No.	Introduction
KMDA-3820-S001	Fanless Box Computer, Intel® I3-6100U/I3-7100U CPU, 2*PCIe/PCI, 3*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~24V
KMDA-3820-S002	Fanless Box Computer, Intel® I5-6200U/I5-7200U CPU, 2*PCIe/PCI, 3*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~24V
KMDA-3820-S003	Fanless Box Computer, Intel® I7-6500U/I7-7500U CPU, 2*PCIe/PCI, 3*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~24V
KMDA-3820-S004	Fanless Box Computer, Intel® Celeron 3855U/3865U CPU, 2*PCIe/PCI, 3*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~24V
KMDA-3820-T001~4	Fanless Box Computer, Intel® Skylake-U/Kabylake-U CPU, 2*PCIe/PCI, 2*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO, 1*Mini PCIe, 1*HDMI, 1*DP, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~24V
PA-60DC12	AC/DC power adapter, DC 12V/5A 60W

*All specifications and photos are subject to change without notice.
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