

Fanless Box Computer

IVTK-BC-3820

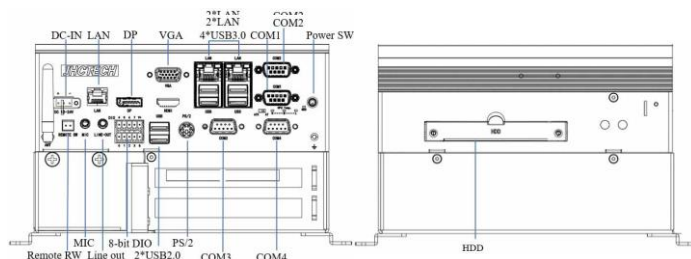
Intel® Skylake-U Celeron/Core I3/I5/I7 CPU, 3*LAN, 4*COM, 7*USB, 8/24bit DIO, dual 4K display, 2*PCIe or 2*PCI, TPM2.0, iVpro technology, DC-IN 12~28V.



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
- 3*Gig LAN, 4*USB3.0, 3*USB2.0(one inside)
- 4*COM, 8/24-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 12~28V Wide Power Input
- Have-open L-shaped cover, easy to expand

KMDA-3820 is a new industrial design Box Computer of JHCTECH with aluminum chassis and fanless design. It powered by the Gen 6th Intel® Skylake-U CPU and DDR4 2133MHz memory, up to 16GB. It features gen.9th Intel HD Graphics, DP and HDMI dual 4K display, 3*Intel LAN, Integrated 10/100/1000M. 4*COM, 4*USB3.0, 8-bit DIO, optional 16-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 12~28V 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.



SPEC.

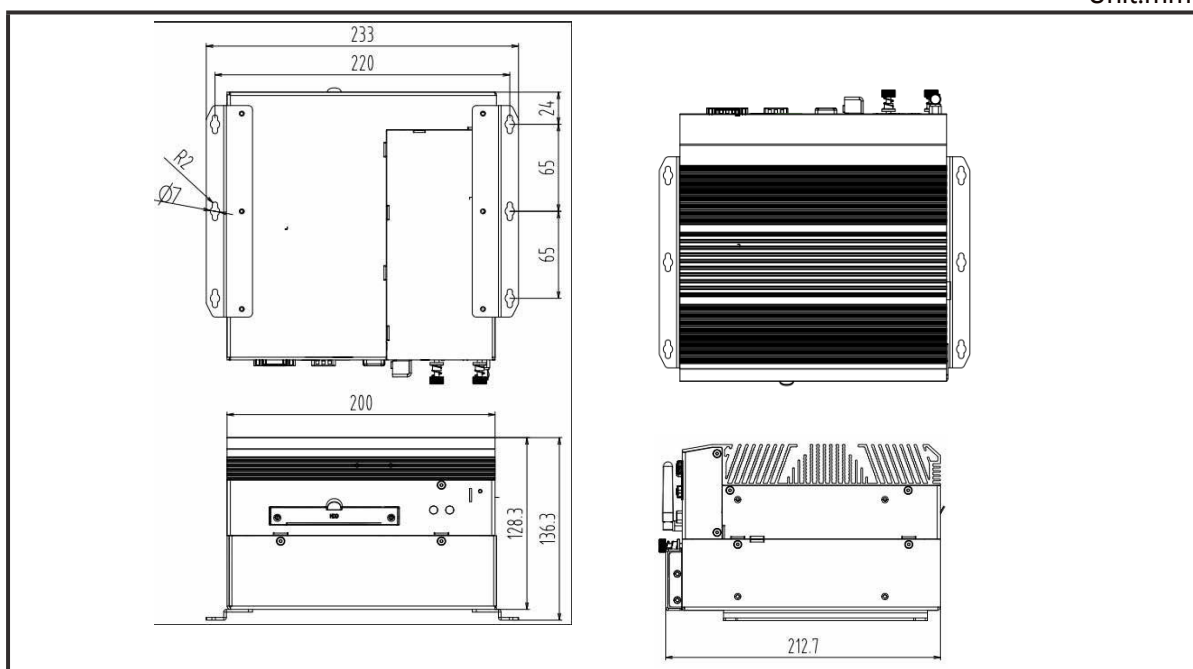
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|----------------|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System | CPU | Gen. 6th Intel® Skylake-U ULT TDP 15W: Celeron 3855U 1.6GHz, 2cores2thds; Core-U: I3-6100U 2.3GHz, 2cores4thds; I5-6200U 2.3-2.8GHz, 2cores4thds; I7-6500U 2.5-3.1GHz, 2cores4thds |
| | 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, Optional 16-bit DIO, 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 12~28V Input, 3-pin ter., short circuit, overvoltage and overcurrent, TDP: TBD |
| Watchdog Timer | Watchdog timeout programmable via software 1 to 255 second | |
| OS Support | Windows 7, Windows 10, Linux Fedora Ubuntu | |

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

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|---------------|-----------------------|------------------------------------------------------------------------------------------------------|
| Mechanical | Structure | aluminum chassis, SGCC frame |
| | Color | Silver |
| | Mounting | Desktop Mounting |
| | Dimension | (W*H*D) : 200*212.7*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(1ms duration)(SSD); 20g peak acceleration(1ms duration)(HDD) |
| | Certification/EMC | CE/FCC Class A |

Dimension

Unit:mm



Ordering Info.

| Model No. | Introduction |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IVTK-BC-3820-S001 | Fanless Box Computer, Intel® Skylake-U I3-6100U 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, 1*PS/2, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~28V |
| IVTK-BC-3820-S002 | Fanless Box Computer, Intel® Skylake-U I5-6200U 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, 1*PS/2, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~28V |
| IVTK-BC-3820-S003 | Fanless Box Computer, Intel® Skylake-U I7-6500U 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, 1*PS/2, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~28V |
| IVTK-BC-3820-S004 | Fanless Box Computer, Intel® Skylake-U Celeron 3855U CPU, 2*PCIe/PCI, 3*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8/24-bit DIO, 1*Mini PCIe, 1*HDMI, 1*DP, 1*VGA, 1*PS/2, Audio out, 1*MIC, 1*2.5" driver bay, 1*mSATA, DC 12~28V |
| IVTK-BC-3201-T001~4 | Fanless Box Computer, Intel® Skylake-U Core I3/I5/I7 or 3855U CPU, 2*PCIe/PCI, 2*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8-bit DIO, 1*Mini PCIe, 1*HDMI, 1*DP, 1*2.5" driver bay, 1*mSATA, DC 12~28V |
| IVTK-PA-60DC12 | AC/DC power adapter, DC 12V/5A 60W |