

## Fanless Embedded Box Computer, KMDA Series

# IVTK-BC-2702

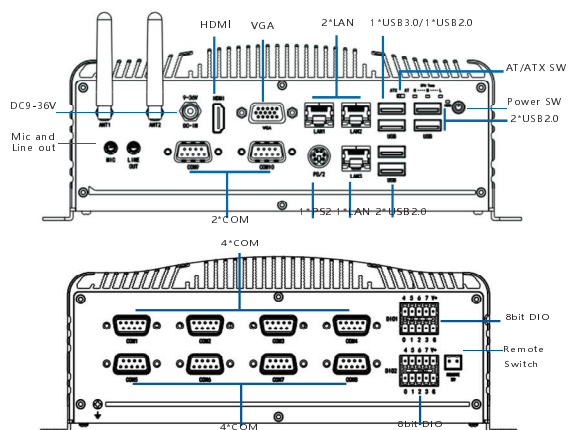
Intel Celeron J1900 CPU, 3\*LAN, 7\*USB, 10\*COM, HDMI and VGA, DC-IN 9~36V, CPU Temp. show in LED, Audio Line out & Mic, 16-bit DIO.

### Key Features

- Universal Aluminum Chassis, Fanless Design
- Intel Baytrail Celeron J1900 2.0-2.42G CPU
- 1\*DDR3L 1333MHz SODIMM , Up to 8GB
- 3\*Intel I211-AT PCIe Gig LAN
- 1\*HDMI and 1\*VGA, Audio Line out and Mic
- 1\*USB3.0, 6\*USB2.0, 10\*COM, 16 bit DIO
- 1\*Mini PCIe(PCIE+USB), 1\*Mini PCIe(SATA+USB)
- 1\*2.5" SATA2 Bay and 1\*mSATA DC
- 9~36V Wide Power Input



Universal dimension box computer IVTK-BC-2702, PCB to PCB multi-structure and fanless design. Powered by Intel Celeron J1900 2.0-2.42GHz 4cores 4threads processor, DDR3L 1333MHZ SODIMM memory up to 8GB. 3Gig. LAN, 1\*USB3.0, 6\*USB2.0 (1 inside), HDMI and VGA dual display, 16bit DIO, 1\*Mini PCIe, 1\*mSATA and 1\*2.5" SATA bay. DC 9-36V wide power input. Operating temperature showing in LED, economic and reliable, it will be fit for environmental protection and new energy application.



### SPEC.

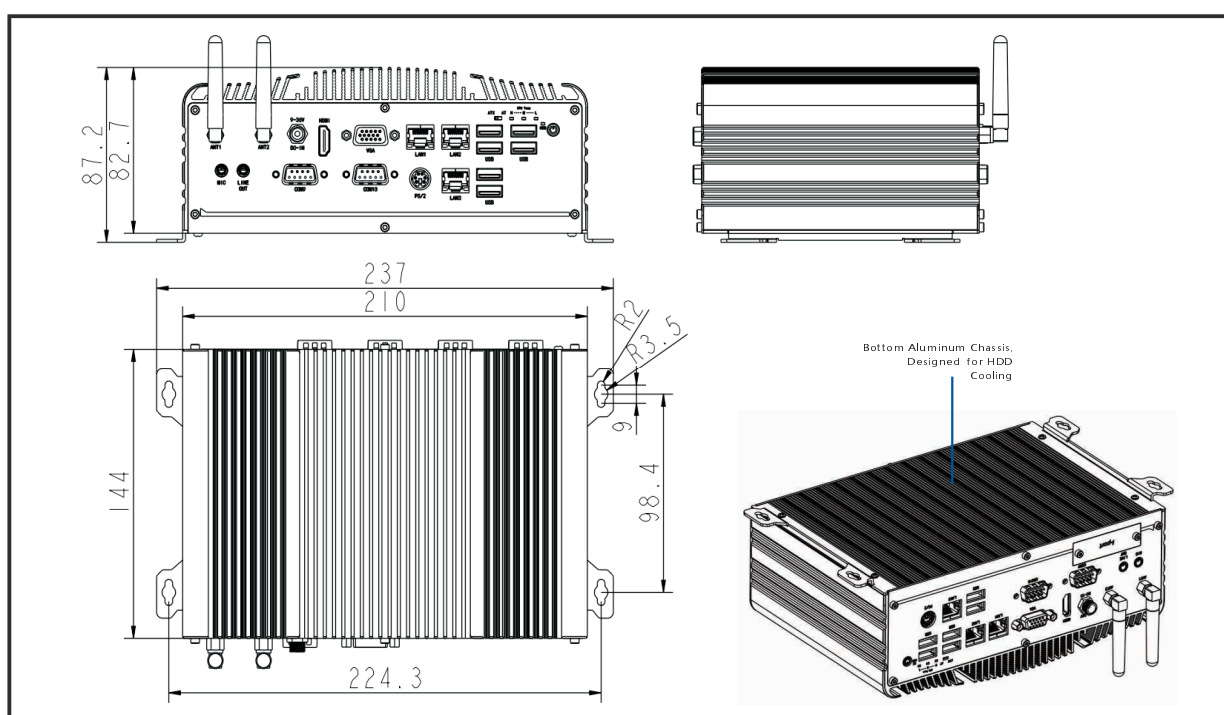
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|-----------------------|--|--|
| System                | <b>CPU</b>   | Intel Baytrail-D Celeron J1900 , 2.0~2.42GHz, 4cores, 4threads, 2M cache, 22nm, TDP 10W  |
|                       | <b>System Memory</b>                                       | 1*DDR3L 1333MHz SODIMM, Up to 8GB  |
|                       | <b>Expansion</b>   | 1*Full size Mini PCIe with PCIe X1(4LAN Non PCIe) and USB with SIM slot, support 4G LTE /Wifi/BT etc. ;<br>1*Full size Mini PCIe with USB+SATA3 signal use to be mSATA   |
|                       | <b>Graphics</b>  | Intel HD Graphics, VGA resolution 1920*1200@60Hz, HDMI resolution 1920*1080@60Hz, Dual independent display , Support OpenGL 3.2, DirectX 11, OpenCL 1.2, MPGE2/H.264   |
|                       | <b>Audio</b>   | Realtek ALC662 HD Audio , 5.1 sound channel, Inside 3W left/right amplify speaker header   |
|                       | <b>LAN</b>   | 3*Intel I211-AT PCIe Gigabit Ethernet, Integrated 10/100/1000M transceiver   |
|                       | <b>KB &amp; MS</b>   | PS/2 keyboard and mouse  |
|                       | <b>Storage</b>   | 1*2.5" HDD bay, SATA2 3.0Gbps, cooling by aluminum cover; 1*mSATA full size, dual AHCI   |
|                       | <b>DIO</b>   | 16 bit TTL signal, Programmable input and output   |
|                       | <b>I-port</b>  | Optional 1*USB2.0 or Mini PCIe module I/O ports (such as CAN Bus, Gig LAN etc.)  |
|                       | <b>I/O Ports</b>   | 3*RJ45 LAN with LED (Front) ;<br>1*USB3.0 Type A and 5*USB2.0 Type A(Front) ,1*USB2.0 Type A (Inside)<br>2*5Pin 8bit DIO terminal connector (Rear); 2*5Pin 8bit DIO terminal connector(Rear)<br>6*RS232/422/485 and 2*RS232 Db9 connector(Rear), 2*RS232/422/485 Db9 (Front) 1*HDMI and 1*VGA(Front);<br>1*Line-out and 1*Mic, dual 3.5mm phone jack(Front) 1*2pin terminal connector, with power sw signal (Rear) |
|                       | <b>LED</b>   | 1*Power on LED, 1*HDD Run LED, 3*CPU temp. LED(Red: High, Yellow: Typical, Green: Low)   |
|                       | <b>Control SW</b>  | 1*Power sw(Front), 1*2pin term. power sw (Rear), 1*AT/ATX Select dip(Front)  |
|                       | <b>Power Supply</b>  | DC 9~36V Input, D-Jack with M8 screw (Front) ; Consumption: TDP 12V/1.3A(2.5" HDD)   |
| <b>Watchdog Timer</b> | Watchdog timeout programmable via software 1 to 255 second |  |
| <b>OS Support</b>     | Windows 7, Windows 8.1, Windows 10, Linux Fedora Ubuntu    |  |

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

|                      |                              |   |
|----------------------|------------------------------|---|
| <b>Mechanical</b>    | <b>Structure</b>             | U form Aluminum Chassis, SGCC frame   |
|                      | <b>Color</b>                 | Silvery   |
|                      | <b>Mounting</b>              | Desktop mounting  |
|                      | <b>Dimension</b>             | (W*H*D) : 210*144*82.7mm  |
|                      | <b>Net Weight</b>            | 2.60kg  |
| <b>Environmental</b> | <b>Operating temperature</b> | -20°C~70°C - Fanless with wide operating temp. SSD, Airflow<br>-10°C~55°C - Fanless with HDD, Airflow |
|                      | <b>Storage temperature</b>   | -40°C~85°C  |
|                      | <b>Storage humidity</b>      | 10~90%@40°C, Non-condensing   |
|                      | <b>Vibration</b>             | 5 grms/5~500Hz/random/in working(SSD); 1 grms/5~500Hz/random/in working(HDD)                          |
|                      | <b>Shock</b>                 | 50g peak acceleration(1ms duration)(SSD); 20g peak acceleration(1ms duration)(HDD) CE/FCC             |
|                      | <b>EMC</b>                   | Class A   |

## Dimension

Unit: mm



## Ordering Info.

| Model NO.         | Introduction  |
|-------------------|---|
| IVTK-BC-2702/S001 | Fanless Embedded Box Computer, Intel® J1900 CPU, 3*LAN,1*USB3.0, 6*USB2.0,10*COM, 16bit DIO, 1*HDMI, 1*VGA, Audio out and Mic, 2*Mini PCIe, 1*HDD bay, DC 9~36V |
| IVTK-PA-60DC12    | AC/DC power adapter, DC 12V/5A 60W  |