

Fanless Embedded Box Computer

IVTK-BC-3201

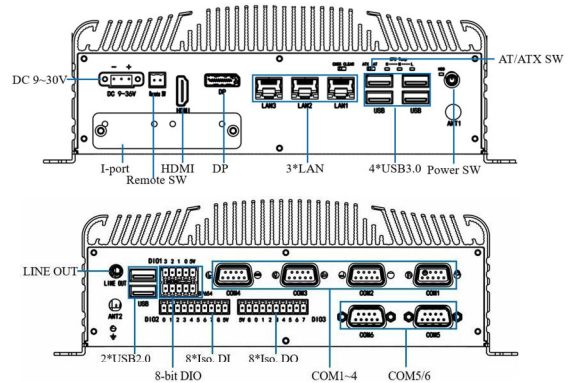
Intel® Skylake-U/Kabylake CPU, 3*LAN, 6*COM, 7*USB, 8-bits DIO, 16-bits ISO. DIO HDMI1.4B+DP1.2 dual 4K display, DC-IN 9~30V.



IVTK-BC-3201 is a new industrial design Box Computer of Invitek with aluminum chassis and fanless design. It powered by Intel® Skylake-U/ Kabylake-U CPU and DDR4 2133MHz dual channel memory up to 32GB. It features gen. 9th Intel HD Graphics, DP and HDMI dual 4K display, 3* Intel LAN, 6*COM, 4*USB3.0, (16+8)bit DIO, 1*Mini PCIe and 1*M.2 which support 4G and Wifi/BT. 1*2.5" SATA HDD/SSD, 1*mSATA, Dual storage. Support TPM2.0 and iVpro technology. With DC 9~30V wide power input, Aluminum chassis designed for HDD cooling. It is widely used for AI, Intelligent Transportation (ITS), and Machine Vision.

Key Features

- Aluminum chassis, fanless design Intel®
- Skylake-U/Kabylake-U CPU 2*DDR4
- 2133MHz SODIMM, Up to 32GB
- 1*DP, 1*HDMI, Dual 4K display
- 3*Gig LAN, 4*USB3.0, 3*USB2.0 (one inside)
- 6*COM, 16-bit Iso. DIO, 8-bit DIO, Audio out 1*F-Mini PCIe (PCIe+USB), 1*M.2 2242 B-Key
- 1*F-mSATA, 1/2*2.5" SATA HDD/SSD driver bay
- Support iVpro and TPM2.0 DC
- 9~30V Wide Power Input
- Mechanical design flexible to the desktop mount



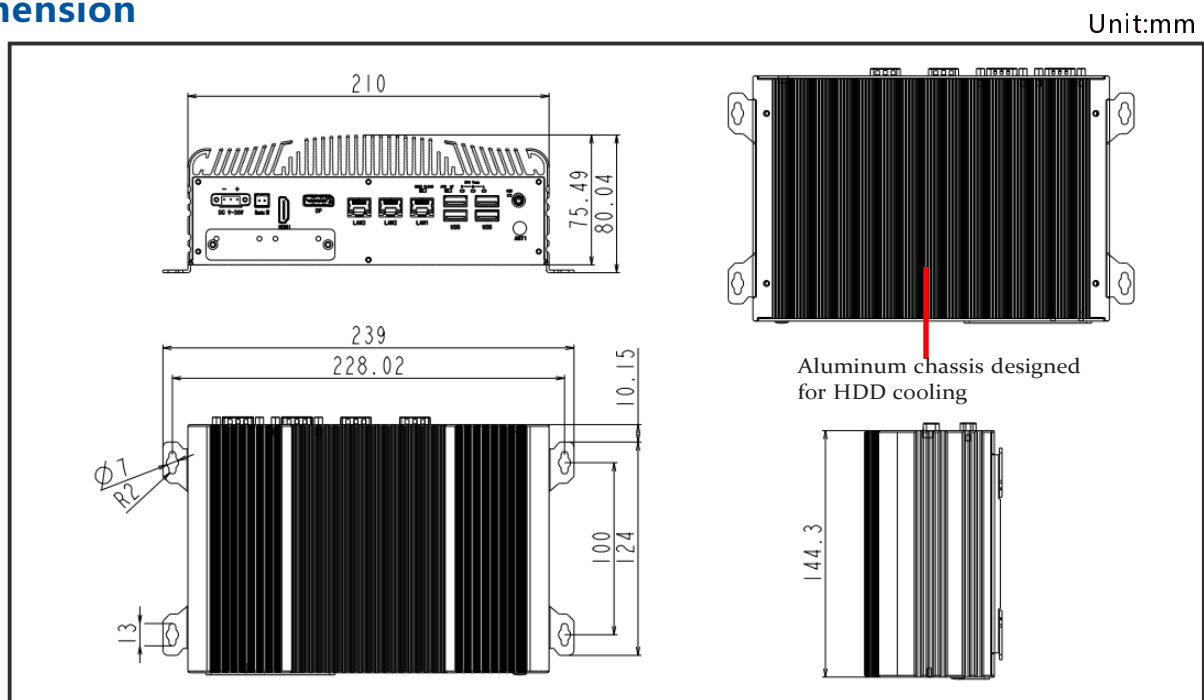
SPEC.

System	CPU	Gen. 6th Intel® Skylake-U Celeron 3855U; Core I3-6100U; I5-6200U; I7-6500U CPU Gen. 7th Intel® Kabylake-U Celeron 3865U; Core I3-7100U; I5-7200U; I7-7500U CPU
	System Memory	2*260-Pin SODIMM, dual channel DDR4 2133Mhz, up to 32GB
	Expansion	1*Full size Mini PCIe (PCIeX1+USB) with SIM slot, 1*M.2 2242 B-key (PCIe X1+USB) with SIM slot, support 2*4GLTE and Wifi i/BT
	Graphics	Gen. 9th Intel® HD Graphics, HEVC/H265 HW HD en/decoder, DP max. res. 4096*2304@60Hz, HDMI max. res. 3940*2160@30Hz, Dual independent display
	Audio	Realtek ALC662VD controller, support 5.1 channel
	LAN	2*Intel I211AT (optional I210AT) PCIe Gig. Ethernet, Integrated 10/100/1000M; 1*Intel I219LM PCIe Gig. Ethernet, support iVpro technology
	Keyboard/mouse	USB keyboard and mouse
	Storage	1/2*2.5" SATA HDD/SSD bay, cooling by aluminum chassis, SATA3 6.0Gbps; 1*mSATA, support AHC
	DIO	8-bit TTL singal, programmable input and output; 8-bit Iso. DI (High: 5-24V, Low: 0-1.5V) and 8-bit Iso. DO (100mA)
	I-port	Optional 1*LVDS, 2*USB2.0 or Mini PCIe ports (such as serial ports and parallel ports)
	I/O ports	3*Rq45 w/LED Gig-LAu (Front) 4*USB3.0 Type A (Front); 2*USB2.0 Type A (Rear), 1*USB2.0 Type A (Inside) 8bit DIO a2*5-pin ter. (Rear), 8bit DI a 1*10-pin ter. (Rear), 8bit DO: 1*10 pin ter. (Rear) 2*RS232/422/485 DB9 male (Rear), 4*RS232 DB9 male (Rear) 1*Audio-out 3.5mm phone jack (Rear) 1*HDMI (Front)+1*DP (Front)
	LED	1
	Control SW	1*Power button (Front); 1*2pin ter. power-on signal (Rear), 1*AT/ATX Select dip (Front)
Power Supply	DC 9~30V Input, 3-pin ter. (Front), short circuit, overvoltage and overcurrent, TDP: 12V/2.31A	
Watchdog Timer	Watchdog timeout programmable in software 1 to 255 second	
OS Support	Windows 7, Windows 10, Linux Fedora Ubuntu	

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

Mechanical	Structure	aluminum chassis, SGCC frame
	Color	Silver
	Mounting	Desktop Mounting
	Dimension	side (W*H*D) : 210*144.3*75.5mm
	Net weight	2.2kg
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



Ordering Info.

Model No.	Introduction
IVTK-BC-3201/S001	Fanless Box Computer, Intel i3-6100U/i3-7100U CPU, 3*LAN, 4*USB3.0, 3*USB2.0, 6*COM, 16bit Iso.DIO, 8bit DIO, 1 *Mini PCIe, 1*M.2, 1*HDMI, 1*DP, Audio out, 1*I-port, 1*2.5" driver bay, 1*mSATA, DC 9~30V
IVTK-BC-3201/S002	Fanless Box Computer, Intel i5-6200U/i5-7200U CPU, 3*LAN, 4*USB3.0, 3*USB2.0, 6*COM, 16bit Iso.DIO, 8bit DIO, 1 *Mini PCIe, 1*M.2, 1*HDMI, 1*DP, Audio out, 1*I-port, 1*2.5" driver bay, 1*mSATA, DC 9~30V
IVTK-BC-3201/S003	Fanless Box Computer, Intel i7-6500U/i7-7500U CPU, 3*LAN, 4*USB3.0, 3*USB2.0, 6*COM, 16bit Iso.DIO, 8bit DIO, 1 *Mini PCIe, 1*M.2, 1*HDMI, 1*DP, Audio out, 1*I-port, 1*2.5" driver bay, 1*mSATA, DC 9~30V
IVTK-BC-3201/S004	Fanless Box Computer, Intel Celeron 3855U/3865U CPU, 3*LAN, 4*USB3.0, 3*USB2.0, 6*COM, 16bit Iso.DIO, 8bit DIO, 1 *Mini PCIe, 1*M.2, 1*HDMI, 1*DP, Audio out, 1*I-port, 1*2.5" driver bay, 1*mSATA, DC 9~30V
IVTK-BC-3201/T001~4	Fanless Box Computer, Intel Skylake-U/Kabylake-U CPU, 2*LAN, 4*USB3.0, 3*USB2.0, 4*COM, 8bit DIO, 1*Mini PCIe, 1*HDMI, 1*DP, Audio out, 1*I-port, 2*2.5" driver bay, 1*mSATA, DC 9~30V
IVTK-PA-60DC12	AC/DC power adapter, DC 12V/5A 60W