

# TBOX-12720

*Industrial Intel Kabylake Core I5 fan-less Embedded Box PC*

## Specification

V2.0

### Brief Introduction

CYBERVISUELL TBOX-12720 is a high-performance fan-less industrial Box PC model, it adapts Intel Kabylake Core I5-7200U CPUs, having advanced computer performance and low power consumption. TBOX-12720 storage can support 1 \*mSATA and 1\* 2.5 inch SATA SSD or HDD; The design has a variety of communication interface, with 2\* LAN ports, 2\* USB 2.0 ports, 4\* USB 3.0 port, 6\* RS232 (Optional with 1\* RS485); The power input is DC 9~24V voltage, and has over-current, over-voltage and reverse-polarity protection.

CYBERVISUELL TBOX-12720 uses full-sealed box construction, and it can prevent dust from entering the device system. Large aluminum fin heat sink can distribute the heat effectively and quickly, ensures the longer reliability and life-span of the system. CYBERVISUELL TBOX-12720 operating temp. is  $-20^{\circ}\text{C}\sim+70^{\circ}\text{C}$ , can be suitable for longer-time operating and harsh environment industrial application projects, such as intelligent transportation system, machine vision, medical device, textile machinery, rail transportation and industry automation. CYBERVISUELL TBOX-12720 can be compatible with Windows 7, Windows 7 Embedded, Windows8, Windows10, Linux Operating system and embedded Operating system, and it is also compatible with application software based on those operating systems.

### Product Image

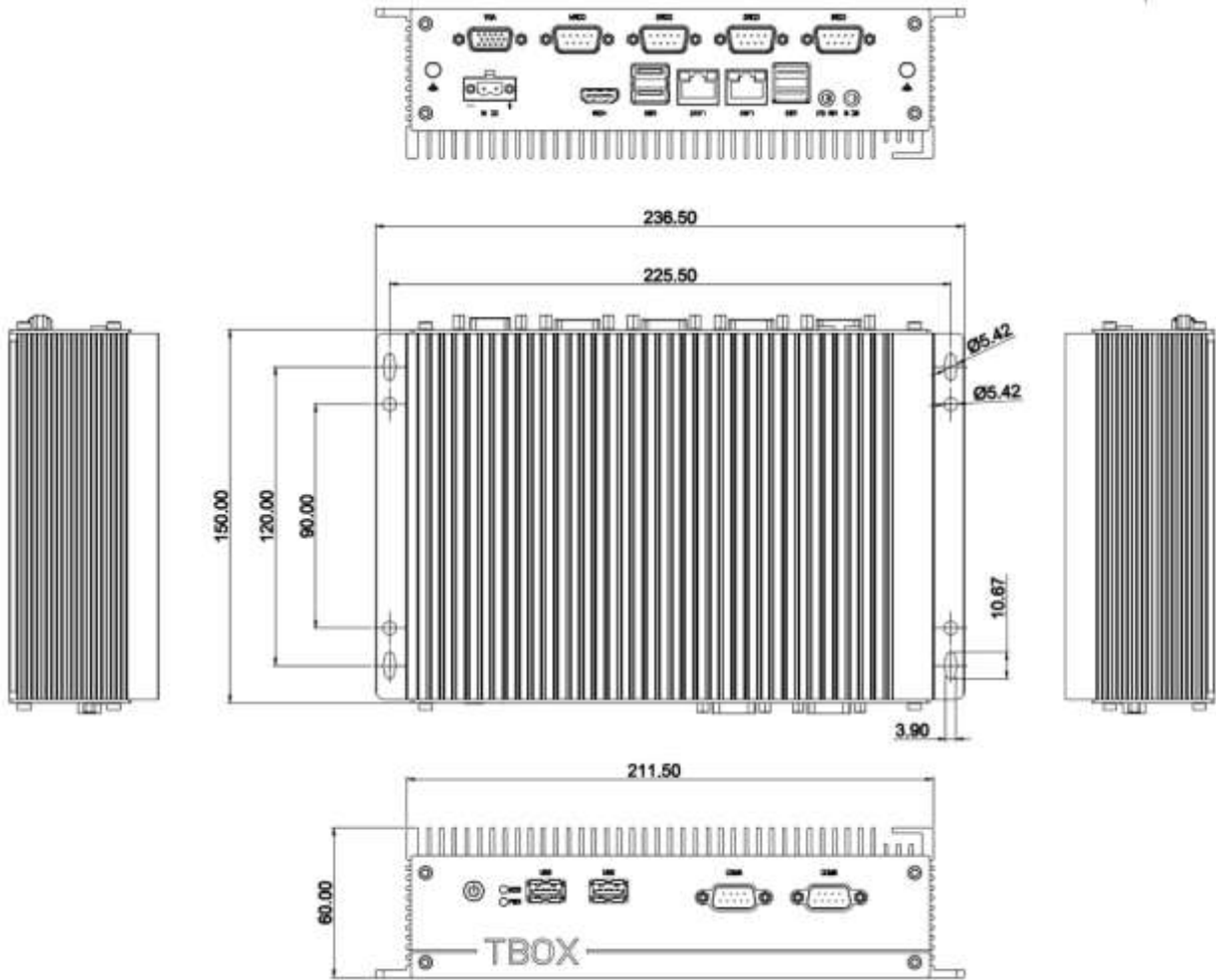


## Specification parameter

<b>Product model</b>	<b>TBOX-12720</b>
<b>System &amp; Hardware</b>	
BIOS	SPI AMI EFI BIOS
CPU	Intel Core I5-7200U
CPU GHz	Dual-core 2.3Ghz
Memory	SO-DIMM, DDR4L, Max. up to 16GB
Storage	1* 2.5'' SATA + 1* mSATA
GPU	Intel HD Graphics Gen7
Network	2* Intel I211AT (Optional Wifi/3G/4G)
Audio	Realtek ACL 269 Audio controller
Expansion	1x full-size mPCIe slot
Watch dog	0~255 seconds programmable
System	Windows 7, Windows 7 Embedded, Windows8, Windows10, Linux
<b>I/O</b>	
COM	6*RS232, DB9, 50~115.2kbps COM2 supports RS232/RS485 COM3 supports RS232/TTL
Network	2*RJ45, 10/100/1000 Mbps
Audio	Line-In, Line-Out
USB	6*USB (4*USB3.0 + 2*USB2.0)
Display	1*VGA, 1*HDMI
Power Input	1*2 pins, phoenix port
GPIO	8*GPIO (Optional)
<b>Structure</b>	
Box Structure and surface	Aluminum alloy, anodizing and anti-scratch treatment
Cooling System	Finned aluminum heatsinks
Color	Silver + Black
Indicator	Power Switch/ Power LED/ HDD LED
Mounting	Support Desktop, Wall-mounted,
Dimension	236.5 x 150 x 60 (mm)
Net weight	About 1.5KG
<b>Power &amp; Environmental</b>	
Voltage Input	DC 12~24V (Over-current, Over-voltage and reverse polarity protection)
Power Consumption	25W

EMC	CE/FCC Class A
Working temperature	-20°C~+70 °C
Wide temp. (Optional)	-40°C ~ +70°C
Storage temperature	-40°C~+80 °C
Relative humidity	10~95%@10°C (No condensation)
Vibration	50~500Hz,1.5G,0.15mm peak to peak
Shock	10G/peak (11ms sec)

### Interface and Dimension



## Ordering Information

TBOX-12710	Intel Core I3-7100U/1*HDMI/1*VGA/2*RJ45/6*USB/6*RS232/DC 12~24V/Line In/Line-Out
TBOX-12720	Intel Core I5-7200U/1*HDMI/1*VGA/2*RJ45/6*USB/6*RS232/DC 12~24V/Line In/Line-Out
TBOX-12730	Intel Core I7-7500U/1*HDMI/1*VGA/2*RJ45/6*USB/6*RS232/DC 12~24V/Line In/Line-Out
Memory	DDR4L 4G/8G/16G
Storage	SSD: 16GB/32GB/64GB/128GB/256GB/512GB/1TB HDD: 500GB/1TB
Wireless module	Wifi: 802.11b/g/n Mini PCIe 150M 3G/4G: All network 4G module

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