TBOX-12420

Industrial Intel Celeron J3355 fan-less Box PC

Specification

V2.0

Brief Introduction

CYBERVISUELL TBOX-12420 is a high-performance fan-less industrial Box PC model, it adapts Intel Apollo lake J3355 CPUs, having advanced computer performance and low power consumption. TBOX-12420 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 12V voltage, and has over-current, over-voltage and reverse-polarity protection.

CYBERVISUELL TBOX-12420 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-12420 operating temp. is -20℃~+70℃, 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-12420 can be compatible with 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

Product model	TBOX-12420
System & Hardware	
BIOS	SPI AMI EFI BIOS
CPU	Intel Apollo lake J3355
CPU GHz	Dual-core 2.0Ghz
Memory	SO-DIMM, DDR3L-1866MT/S, Max. up to 8GB
Storage	1* 2.5'' SATA + 1* mSATA
GPU	Intel HD Graphics 500
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	Windows10, Linux, Unix
I/O	
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)
Structure	
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
Power & Environmental	
Voltage Input	DC 12V (Over-current, Over-voltage and reverse polarity protection)
Power Consumption	20W

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

Interface and Dimension
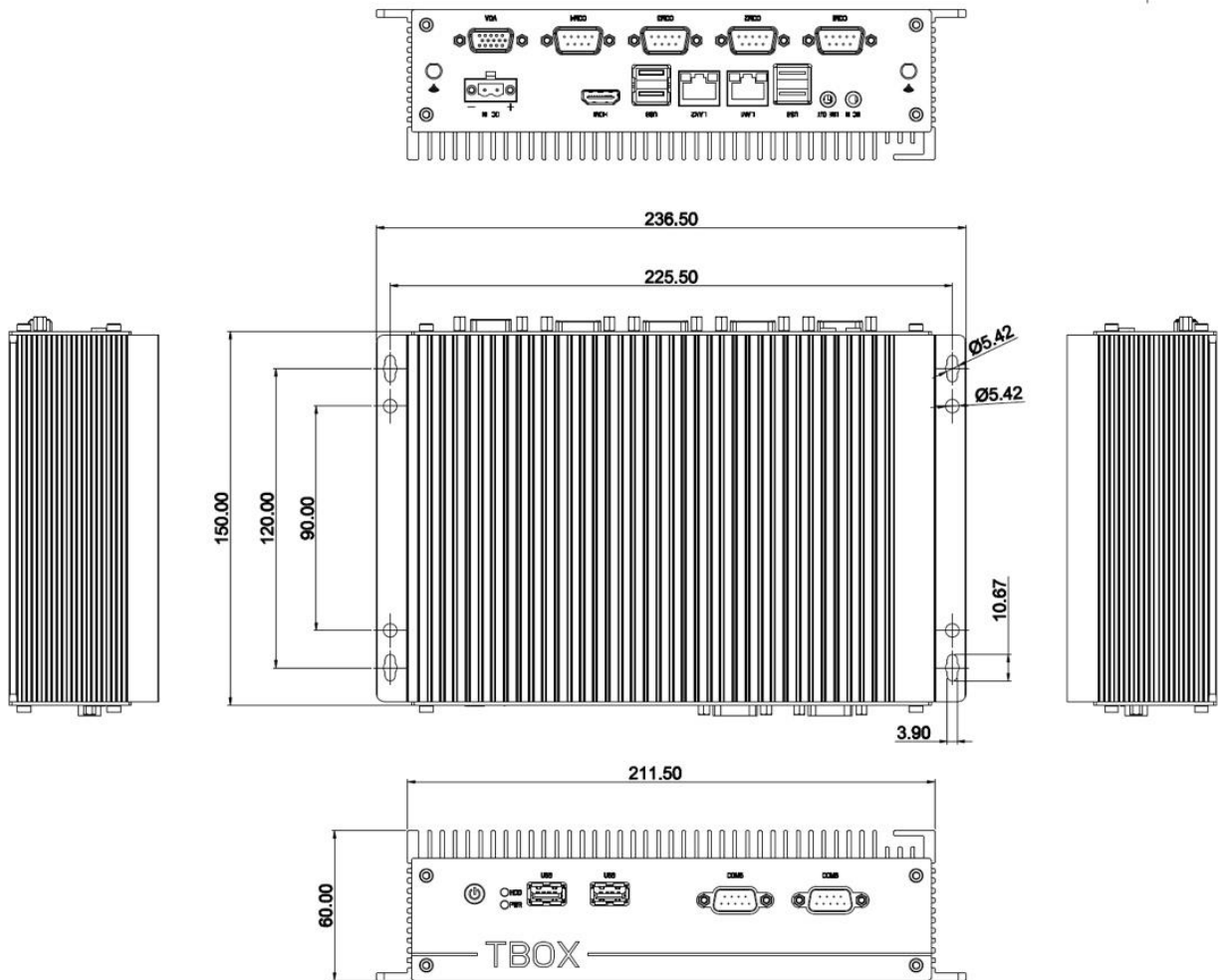
Ordering Information

TBOX-12410	Intel Celeron J3455/1*HDMI/1*VGA/2*RJ45/6*USB/6*RS232/DC 12V/Line In/Line-Out
TBOX-12420	Intel Celeron J3355/1*HDMI/1*VGA/2*RJ45/6*USB/6*RS232/DC 12V/Line In/Line-Out
Memory	DDR3L 2G/4G/8G
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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