

# iSBX-TS2001-J1900

Intel® Bay Trail J1900 processor Fanless  
Embedded Computer with 1x HDMI/ 1x VGA / 6x  
USB / 6x COM/ 2x GIGA LAN



## FEATURES

- Rugged & compact sealed aluminum box design
- Intel Baytrail J1900 2.0Ghz low power processor
- Wide voltage DC 9~24V power input
- Industrial operating temp. -20 ~ +70C
- Dimension: 236.5 x 150 x 60 (mm)
- Expansional with 3G/4G/LTE, Wifi/BT, industrial modules
- I/O: 6x USB, 2x GLAN, 6x COM, 1x HDMI, 1x VGA, Audio.

## Introduction

SINETIC iSBX-TS2001-J1900 is a high-performance, fanless industrial box PC designed for reliable and energy-efficient operation in demanding environments. Powered by Intel® Celeron J1900 or J1800 processors, it delivers dependable computing performance with low power consumption—ideal for continuous industrial applications.

The system provides flexible storage options, supporting 1× mSATA and 1× 2.5-inch SATA SSD or HDD to accommodate diverse data requirements. Its rich I/O configuration ensures seamless integration into industrial systems, featuring 2× LAN ports, 5× USB 2.0 ports, 1× USB 3.0 port, and 6× RS232 ports (optional 1× RS485). A wide-range 9–24V DC power input enhances deployment flexibility across various industrial power environments.

Built with a fully sealed enclosure, the iSBX-TS2001-J1900 effectively prevents dust intrusion, while the large aluminum fin heat sink ensures efficient heat dissipation for stable, long-term performance. The fanless design reduces maintenance needs and extends system lifespan. With an operating temperature range of -20°C to +70°C, it is well-suited for harsh industrial conditions and long-duration operation in applications such as intelligent transportation systems, machine vision, medical equipment, textile machinery, rail transit, and industrial automation.

The iSBX-TS2001-J1900 supports Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, and other embedded operating systems, ensuring broad compatibility with existing industrial software platforms.

## Specification

System	
Processor	• Intel® Baytrial Celeron J1900 processor Quad-core 2.0Ghz, burst to 2.42Ghz TDP: 10W
BIOS	• SPI AMI EEI BIOS
Memory	• SO-DIMM, DDR3L-1333 Mhz, Max. up to 8GB
Storage	• 1x mSATA slot (Optional support 1x 2.5" SATA slot)
Graphic	• Intel® HD Graphics Gen7
Network	• 2x Intel® I210AT, optional support 3G/4G/Wi-Fi wireless
Audio	• On-board Realtek ACL 282 Audio controller
Expansion	• 1x Mini-PCIe expansional slot
TPM	• -
Watchdog	• 0~255 seconds programmable
Operating system	• Win7, Win8, Win10, Linux
IO Interface	
COM	• 6x RS232 (Optional 1x RS485)
Network	• 2x RJ45, 10/100/1000 Mbps
Audio	• Mic-in/Line-out
USB	• 1x USB3.0, 5x USB2.0
Display	• 1x HDMI + 1x VGA
Power Input	• 1x 2 pin, phoenix terminal
GPIO	• 8x GPIO (Optional via 1x DB9)
Structure	
Structure and surface	• Aluminium alloy, anodizing and anti-scratch treatment
Cooling System	• Finned aluminium heatsinks
Color	• Silver
Indicator	• Power Switch/ Power LED/ HDD LED
Mounting	• Desktop, wall mount, optional with Din-rail mount
Dimension	• 236.5 x 150.0 x 60.0 (mm)
Net weight	• About 1.4 KG

## Mechanical & Environment

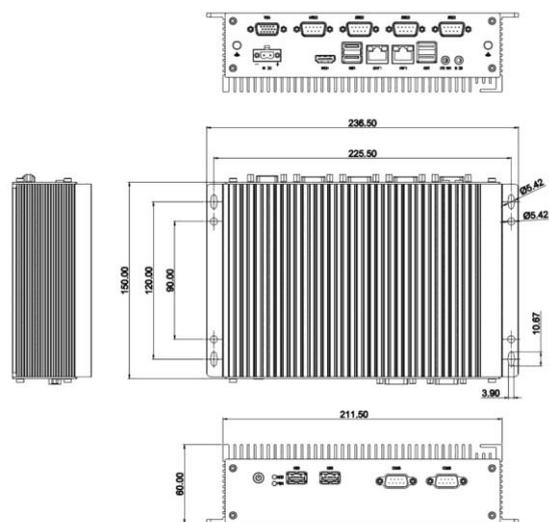
Voltage Input	• DC 12V
Power Consumption	• 20W
EMC	• CE/FCC/RoHS
Working temperature	• -20 ~ + 70 (°C)
Storage temperature	• -40 ~ + 80 (°C)
Relative humidity	• 10~95%@10°C (No condensation)
Vibration	• 50~500Hz,1.5G,0.15mm peak to peak
Shock	• 10G/Peak (11 ms)

## Ordering Information

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Front View



Dimension

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