iSBX-TS1010-J6412A

FEATURES

- Rugged & compact sealed aluminum box design
- Onboard Intel® Elkhart Lake J6412 Quad-core processor
- 2x Intel® GLAN, expansional with 3G/ 4G/ LTE, Wi-Fi/Bluetooth wireless
- No Serial port
- 3x USB3.0, 3x USB2.0 high speed interfaces
- DC 12V power range, with over-current and over-voltage and plarity reverse protection
- I/O: 2x GLAN, 3x USB3.0, 3x USB 2.0, 2x HDMI, Mic-in/Line-out

Introduction

iSBX-TS1010-J6412A is a new palm-sized fanless Box PC model, it adapts Intel® Elkhart Lake J6412 Quad-core CPU, having advanced computing performance and low power consumption. iSBX-TS1010-J6412A storage can support 1x M.2 NVMe SSD; The design has rich IO interfaces, with 2x LAN ports, 3x USB3.0, 3x USB2.0, 2*HDMI and 1x Audio ports; The power input is DC 12V voltage, and has over-current, over-voltage and reverse-polarity protection.

iSBX-TS1010-J6412A operating temp. is -20℃~+60℃, can be suitable for longer-time operating and harsh environment industrial application projects. iSBX-TS1010-J6412A can be compatible with Windows10, Windows 11, Linux Operating system and embedded Operating system, and it is also compatible with application software based on those operating systems.

Ordering Information

iSBX-TS1010-J6412A	Intel® Elkhart Lake J6412 Quad-core processor, Fanless Embedded Computer with 2x HDMI / 6x USB / 2x GIGA LAN / DC 12V Input

Rear View

Specification

System

Processor	• Intel Elkhart Lake J6412, Quad-core 2.0Ghz processor, burst to 2.6Ghz • TDP 10W
BIOS	• SPI AMI EEI BIOS
Memory	• SO-DIMM, DDR4-2666/2933/3200 Mhz, Max. up to 32GB
Storage	• 1x M.2 2280 M-Key slot (PCIe Gen-IV x4, NVMe) SSD
Graphic	• Intel Iris Xe Graphics (Up to 96EUs, 1.40Ghz)
Network	• 1x Intel i219V, 1x Intel i226V, optional support 3G/4G/5G/Wi-Fi/BT Wireless
Audio	• On-board Realtek ACL897 Audio controller
Expansion	• 1x M.2 3052 B-key slot (4G/5G), 1x M.2 2230 E-Key (Wi-Fi/BT)
TPM	• Intel® PTT TPM2.0
Watchdog	• 0~255 seconds programmable
Operating system	• Windows 10/11, Linux

IO Interface

COM	• No COM
Network	• 2x RJ45, 10/100/1000 Mbps
Audio	• 1x Mic-in/Line-out (2-in-1 Jack)
USB	• 3x USB3.0, 3x USB2.0
Display	• 2x HDMI
Power Input	• DC Jack, lockable 5.5 * 2.5
GPIO	• Optional GPIO

Structure

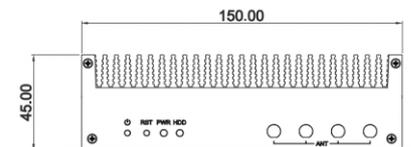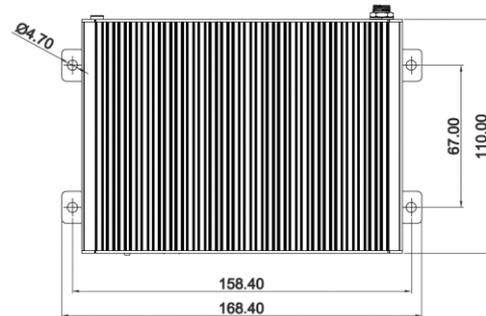|	
Structure and surface	• Aluminium alloy, anodizing and anti-scratch treatment
Cooling System	• Finned aluminium heatsinks
Color	• Black
Indicator	• Power Switch/ Power LED/ HDD LED
Mounting	• Desktop, wall mount, optional with Din-rail mount
Dimension	• 168.4 x 110 x 45 (mm)
Net weight	• About 0.85 Kg

Mechanical & Environment

Voltage Input	• DC 12V
Power Consumption	• 20W
EMC	• CE/FCC/RoHS
Working temperature	• -20 ~ + 60 (℃)
Storage temperature	• -40 ~ + 70 (℃)
Relative humidity	• 10~95%@10℃（No condensation）
Vibration	• 50~500Hz,1.5G,0.15mm peak to peak
Shock	• 10G/Peak (11 ms)

Dimension