

SB-244-2J64

Industrial Fanless PC w/ Intel® Elkhart Lake Celeron® J6412 Processor & Discrete TPM



Features

- Intel® Celeron® J6412 CPU Elkhart Lake (2.0GHz/2.6GHz)
- 1 x DDR4 3200MHz SO-DIMM Slot, up to 32GB
- 4 x GbE LAN
- Support HDMI/VGA video output
- Support mSATA/M.2 SSD, Mini-PCIe
- Support Discrete TPM 2.0
- Support Over-Voltage & Reversed Power Insertion Protection



HDMI



Over-voltage
Protection



USB 3.1



-20~60°C



Wide Voltage
Range



Reversed
Power Insertion
Protection

System

CPU	Intel® Celeron® J6412 Quad Core CPU Elkhart Lake (2.0GHz/2.6GHz)
Memory	1 x DDR4 SO-DIMM socket, supporting 3200 MHz SDRAM up to 32GB *CTOS is available
Chipset	Integrated in CPU
Graphics	Intel® Iris UHD Graphics for 10 th Gen Intel® processor
LAN Chipset	4 x Intel® i210AT GbE Controllers
TPM	Nuvoton NPCT760AABYX TPM 2.0 chip
Watchdog Timer	1~255 levels reset

Storage

Device	1 x M.2 M Key 2242 slot (SATA signal) 1 x MiniPCIe slot for mSATA *CTOS is available
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Audio

Type	1 x Audio(Line-out & Mic-in) (Chipset ALC888S/897)
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Power

Power Input	12-36V DC, 2-pin phoenix connector
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OS

Windows 10/11, Ubuntu 22.04

Qualification

Certification	CE, FCC
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External I/O

Serial Ports	1 x RS485 3 x RS232
USB Ports	2 x USB3.1 4 x USB2.0
LAN	4 x RJ45
Video Ports	1 x HDMI® 1 x VGA
Power Button	1 x Power button w/ LED

Internal I/O

Expansion Slot	1 x full-size MiniPCIe (PCIe/USB2.0/mSATA signal support)
SIM Card	1 x SIM card socket for 3G/4G module
COM Port	2 x RS485

Mechanical

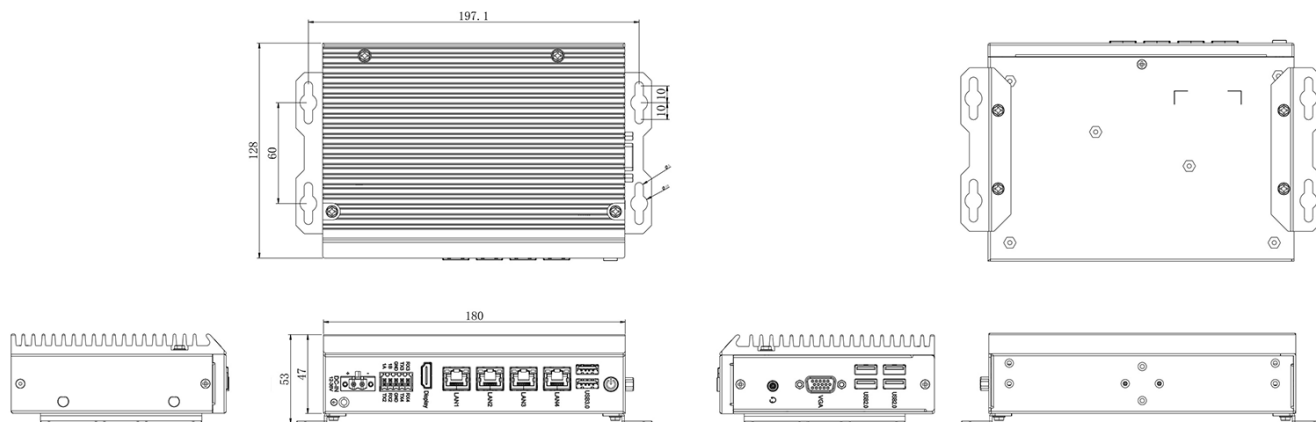
Construction	Aluminum Alloy
Dimension (W x H x D)	180 x 128 x 47 mm
Mounting	Desktop, Wall-mount, Din Rail (Optional)
Weight	1.5 kg

Environmental

Operating Temp.	-20 ~ 60°C (-4 ~ 140°F), ambient w/ air flow (WT RAM & SSD)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	5 ~ 95% @ 40°C (non-condensing)
Vibration	5~500Hz, 2Grms operation
Shock	Operation: 10G@11ms Non-operation: 30G@11ms

*CTOS means Configure-to-Order Service.

Dimensions



Unit: mm

Packing List

SB-244-2J64	1 pcs BOX PC
Thermal PAD	1 pcs for Memory, 1 pcs for M.2 2242/3042
2-pin terminal block	1 pcs 5mm for Power-input, 1 pcs 3.5mm for Remote on-off SW
DIP-10 Terminal block	1 pcs for serial ports
Wall-mount bracket	2 pcs
DIN-Rail Kit	1 pcs
Screw Package	1 pcs

Ordering Information

SB-244-2J64	Barebone Fanless System with Intel® Celeron Elkhart Lake J6412, TPM
SB-244-2J64-R8S128	Fanless System with commercial 8GB RAM & 128GB SSD, Intel® Celeron Elkhart Lake J6412, TPM
PAC-60W-FSP-SPA-US R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ US POWER CORD
PAC-60W-FSP-SPA-EU R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ EU POWER CORD
PAC-60W-FSP-SPA-UK R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ UK POWER CORD
PAC-60W-FSP-SPA-IN R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ IN POWER CORD
PAC-60W-FSP-SPA-JP R1.0	AC/DC Adapter Kit (w/ UKCA), 12V, 60W, 2 WIRE w/ JP POWER CORD