

SB-226-1J64

Industrial Fanless Rugged Controller w/ Intel® Elkhart Lake Celeron® J6412 Processor



Features

- Intel® Celeron® J6412 CPU Elkhart Lake (2.0 GHz/2.6GHz)
- 1 x SDRAM DDR4 3200 MHz (max. 32G)
- Support 2 Gigabit LAN
- Support M.2 SSD, MiniPCIE, mSATA
- Support Wide DC input 12~36V
- Support Over-voltage and Reserved 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 CPU Elkhart Lake (2.0 GHz/2.6GHz)
Memory	1 x DDR4 SO-DIMM socket, supporting 3200 MHz SDRAM up to 32GB
Chipset	Integrated in CPU
Graphics	Intel® UHD Graphics for 10 th Gen Intel® processors
LAN Chipset	2 x Intel® I210-AT GbE Controllers
Watchdog Timer	1~255 levels reset

Storage

Device	1 x M.2 M Key 2242 slot (SATA signal) 1 x MiniPCle 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 System

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 RS232/422/485 (default RS232) with auto flow control 4 x RS485 ± 2KV protection 1 x RS232
USB Ports	4 x USB3.1 2 x USB 2.0 (optional by internal)
LAN	2 x RJ45
Video Ports	1 x HDMI (Max Resolution: 4096x2160@60Hz)

Power Button	1 x Power button w/LED
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GPIO	1 x 4bit programmable GPIO (3.3V default / 5V optional)
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Internal I/O

Expansion Slot	1 x full-size MiniPCle slot
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SIM Card	1 x SIM Card socket for 3G/4G module
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Mechanical

Construction	Aluminum alloy
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Mounting	Desk-mount, Wall-mount, DIN Rail (optional)
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Dimension (W x H x D)	200 x 130 x 41 mm
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Weight	1.5kg
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Environmental

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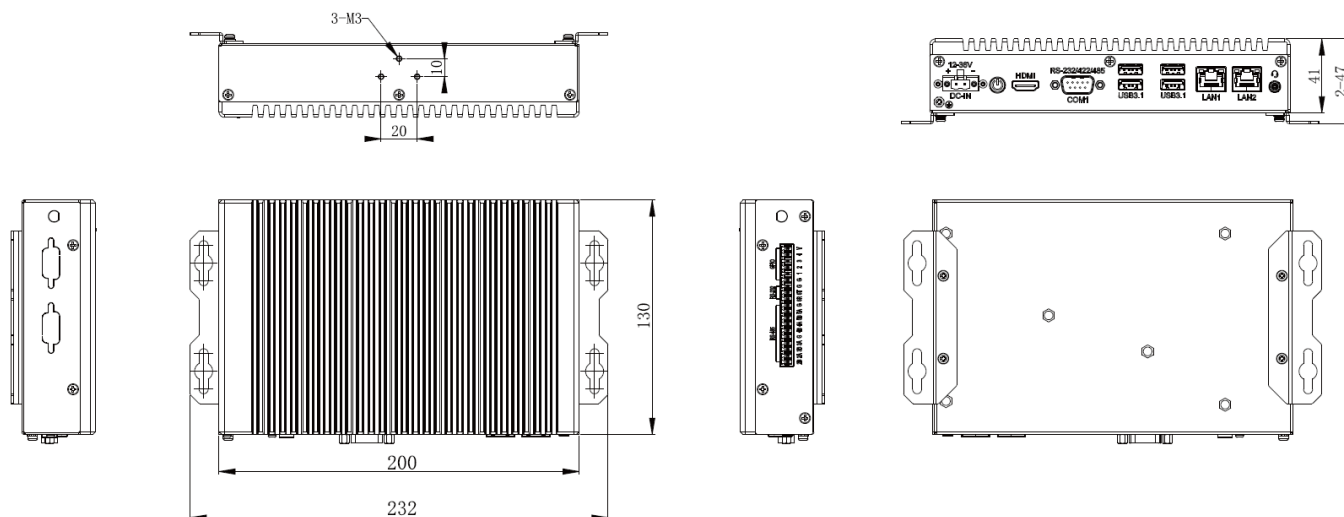
Operating Humidity	5 ~ 95% @ 40°C (non-condensing)
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Vibration	5~500Hz, 2Grms operation
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Shock	Operation: 10G@11ms Non-operation: 30G@11ms
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*CTOS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

Dimensions



Unit: mm

Packing List

SB-226-1J64	1 pcs BOX PC
Thermal PAD	1 pcs for Memory, 1 pcs for M.2 2242
2-pin terminal block	1 pcs 5mm for Power-input
DIP-19 Terminal block	1 pcs for serial & GPIO ports
Wall-mount bracket	2 pcs
Screw Package	1 pcs

Ordering Information

SB-226-1J64	Barebone Fanless System with Intel® Celeron Elkhart Lake J6412 , 2 x LAN, 6 x COM, 4 x USB(up to 6), 1 x HDMI, DC12-36V power input
SB-226-1J64-R4S128	Fanless System with commercial 4GB RAM & 128GB SSD, Intel® Celeron Elkhart Lake J6412, 2 x LAN, 6 x COM, 4 x USB(up to 6), 1 x HDMI, DC12-36V power input
SB-226-1J64-R8S128	Fanless System with commercial 8GB RAM & 128GB SSD, Intel® Celeron Elkhart Lake J6412, 2 x LAN, 6 x COM, 4 x USB(up to 6), 1 x HDMI, DC12-36V power input
SPA BOX PC DIN RAIL KIT	DIN Rail Bracket w/Screw, 35mm W25, 25X47.8mm
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