

SB-142-2J64

Industrial Fanless PC 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 1 x Gigabit & 3 x 2.5 Gigabit LANs
- Support DP/HDMI video output
- Support M.2 2242 slot (SATA), M.2 2230 slot (WiFi), MiniPCIe slot
- 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 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	Integrated Intel® UHD Graphics for 10 th Gen Intel® Processors
LAN Chipset	1 x Intel® I210-AT GbE controller 3 x Intel® I226-V for 2.5GbE controllers
Watchdog Timer	1~255 levels reset

Storage

Device	1 x M.2 M Key 2242 slot (SATA signal) *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	12-24V DC, 2-pin phoenix connector
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OS

Windows 10/11, Ubuntu 20.04

Qualification

Certification	CE, FCC
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External I/O

Serial Ports	2 x RS232/422/485 (default RS232) with auto flow control
USB Ports	2 x USB3.1 2 x USB2.0
LAN	4 x RJ45
Video Ports	1 x HDMI (Max Resolution: 4096 x 2160@60Hz) 1 x DP (Max Resolution: 4096 x 2160@60Hz)

Internal I/O

Expansion Slot	1 x MiniPCIe slot (PCIe/USB2.0 signal supported) 1 M.2 E Key 2230 slot (PCIe/USB2.0 signal supported)
SIM Card	1 x SIM Card socket for 3G/4G module
GPIO	1 x 8bit programmable GPIO (default 3.3V, 5V optional) (optional by internal pin head)

Mechanical

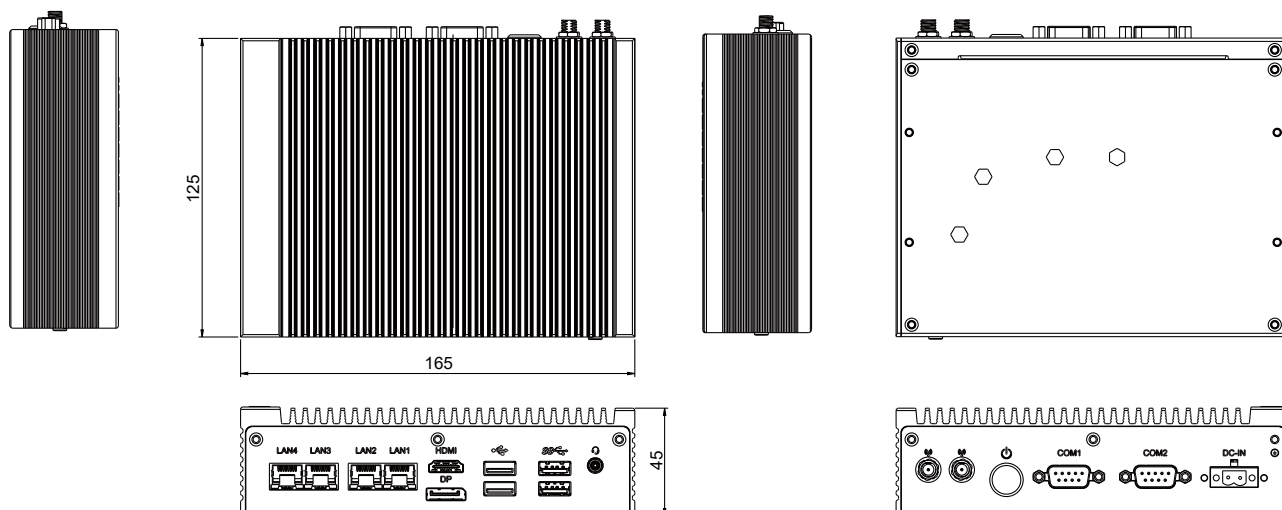
Button	1 x Power button
LED	1 x Power LED (Green for Power-on, Blink for Sleep mode, Off for Power-off)
Construction	Aluminum alloy
Mounting	Wall-mount VESA-mount(optional) Din Rail (optional, SPA VESA BRACKET + SPA BOX PC DIN RAIL KIT)
Dimension (W x H x D)	165 x 125 x 45 mm
Weight	0.9kg

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-142-2J64	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
Wall mount bracket	2 pcs
Screw Package	1 pcs

Ordering Information

SB-142-2J64	Barebone Fanless System with Intel® Celeron Elkhart Lake J6412
SB-142-2J64-R4S128	Fanless System with commercial 4GB RAM & 128GB SSD, Intel® Celeron Elkhart Lake J6412
SB-142-2J64-R8S128	Fanless System with commercial 8GB RAM & 128GB SSD, Intel® Celeron Elkhart Lake J6412
SPA BOX PC DIN RAIL KIT	DIN Rail Bracket w/Screw, 35mm W25, 25X47.8mm
SPA VESA BRACKET	SECC, 165 x 115 x 10.5mm, FOR SB-142-2J64, SB-244-1J64
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