



# 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 4 Gigabit LAN
- Support DP/HDMI video output
- Support M.2 SSD, M.2 WiFi, Mini-PCIe



HDMI



Over-voltage Protection



USB 3.1



-20~60°C



Wide Voltage Range



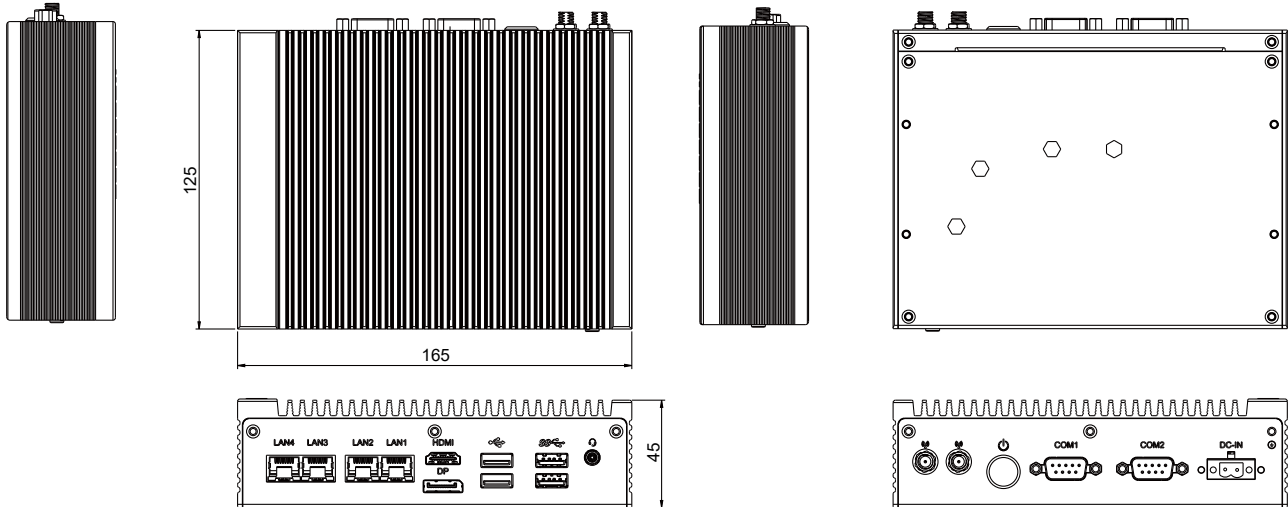
Reversed Power Insertion Protection

System	
CPU	Intel® Celeron® J6412 CPU Elkhart Lake (2.0 GHz/2.6GHz)
Memory	1 x SDRAM DDR4 3200 MHz SO-SIMM slot (max. 32G) 4GB DDR4 SO-DIMM pre-installed*(CTOS)
Graphics	Intel® UHD Graphics for 10 <sup>th</sup> Gen Intel® Processors
LAN chipset	1 x Intel I210AT GbE controller 3 x Intel I226-V for 2.5GbE controllers
Watchdog Timer	Programmable 255 levels timer interval, from 1~255 sec/min
Storage	
Device	1 x M.2 2242 (SATA 3.0) 128GB M.2 SSD pre-installed*(CTOS)
Audio	
Type	1 x Line-out 1 x Mic-in (Chipset 888S/897)
Power System	
Power Input	12-24V DC, 2-pin phoenix connector
OS	
Windows 10, Ubuntu 20.04	
Qualification	
Certification	CE, FCC
External I/O	
Serial Ports	2 x RS232/422/485(default RS-232) with auto flow control
USB Ports	2 x USB3.1 2 x USB2.0
LAN	4 x RJ45
Video Ports	1 x HDMI up to 4096 x 2160 @ 24 Hz 1 x DP up to 4096 x 2160 @ 60 Hz

Internal I/O	
Expansion Slot	1 x Mini-PCIe slot (PCIe/ USB2.0 signal supported)
	1 x E-Key M.2 2230 slot (PCIe/USB2.0 signal supported)
	1 x M.2 2242 SSD slot(SATA 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)
Chassis	Aluminum Alloy
Mounting	Desk-Mount, Wall-Mount, DIN-Rail(optional)
Dimension (W x H x D)	165 x 125 x 45 mm
Weight (Net)	0.9kg
Environmental	
Operating Temp.	-20 ~ 60°C
Storage Temp.	-40 ~ 85°C
Relative Humidity	5% ~ 95% (non-condensing)
Vibration	5~500Hz, 2Grms operation
Shock	Operation: 10G@11ms Non-operation: 30G@11ms

\*CTOS means Configure-to-Order Service.

## Dimensions



Unit: mm

## Ordering Information

SB-142-2J64	Barebone Fanless System, Intel Celeron Elkhart Lake J6412, 4 x LAN, 2 x COM, 4 x USB, 1 x HDMI, 1 x DP, DC 12-24V power input
SB-142-2J64-R4S128	Fanless System with 4GB RAM & 128GB SSD, Intel Celeron Elkhart Lake J6413, 4 x LAN, 2 x COM, 4 x USB, 1 x HDMI, 1 x DP, DC 12-24V power input



## Optional Accessories

PAC-60W-FSP-SPA R1.0	AC/DC ADAPTER KIT (W/UKCA), 12V, 60W, 2 WIRE w/ USA POWER CORD
PAC-60W-FSP-SPA R1.1	AC/DC ADAPTER KIT (W/UKCA), 12V, 60W, 2 WIRE w/ EU POWER CORD
PAC-60W-FSP-SPA R1.2	AC/DC ADAPTER KIT (W/UKCA), 12V, 60W, 2 WIRE w/ UK POWER CORD
PAC-60W-FSP-SPA R1.3	AC/DC ADAPTER KIT (W/UKCA), 12V, 60W, 2 WIRE w/ IN POWER CORD
2T71A7Y00-JTW-G	VESA BRACKET, SECC, Gray Paint, 165*115*10.5mm for SB-142-2J64, SB-244-11135G7