



# SB-142-1J64

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



HDMI



Over-voltage Protection



USB 3.1



-20~60°C



Wide Voltage Range



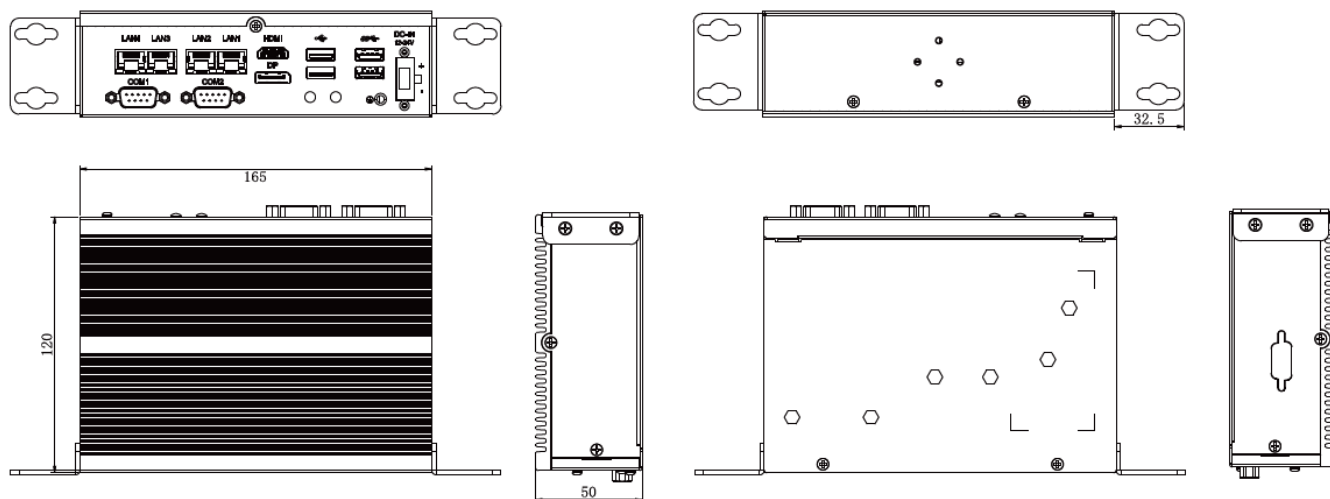
Reversed Power Insertion Protection

| System                   |  |
|--------------------------|--|
| CPU                      | Intel® Celeron® J6412 CPU Elkhart Lake (2.0 GHz/2.6GHz)                                  |
| Memory                   | 1 x SDRAM DDR4 3200 MHz SO-DIMM slot (max. 32G)<br>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<br>3 x Intel I226-V 2.5GbE controllers                   |
| Watchdog Timer           | Programmable 255 levels timer interval, from 1~255 sec/min                               |
| Storage                  |  |
| Device                   | 1 x M.2 2242 (SATA3.0)<br>128GB M.2 SSD pre-installed*(CTOS)                             |
| 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<br>2 x USB2.0   |
| LAN                      | 4 x RJ45   |
| Video Ports              | 1 x HDMI up to 4096 x 2160 @ 24 Hz<br>1 x DP up to 4096 x 2160 @ 60 Hz                   |

| Internal I/O          |  |
|-----------------------|--|
| Expansion Slot        | 1 x M.2 2242 SSD slot(SATA signal supported)   |
| USB                   | 2 x USB2.0 encryption dongle (optional by internal pin head)                           |
| GPIO                  | 1 x 8bit programmable GPIO (default 3.3V, 5V optional) (optional by internal pin head) |
| Mechanical            |  |
| LED                   | 1 x Power LED<br>1 x HDD LED   |
| Chassis               | Aluminum Alloy   |
| Mounting              | Desk-Mount, Wall-Mount, DIN-Rail(optional)   |
| Dimension (W x H x D) | 165*120*50 mm  |
| Weight (Net)          | 0.8kg  |
| Environmental         |  |
| Operating Temp.       | -20 ~ 60°C   |
| Storage Temp.         | -40 ~ 85°C   |
| Operating Humidity    | 5% ~ 95% (non-condensing)  |
| Random Vibration      | 5~500Hz, 2Grms operation   |
| Shock                 | Operation: 10G@11ms<br>Non-operation: 30G@11ms   |

\*CTOS means Configure-to-Order Service.

## Dimensions



Unit: mm

### Ordering Information

|                    |   |
|--------------------|---|
| SB-142-1J64        | 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-142-1J64-R4S128 | Fanless System with 4GB RAM & 128GB SSD, 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 |



### 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  |
| CEA-DINRAIL-25       | DIN-RAIL for SB-142-1J64, SB-122-1J64                       |