

## Industrial Fanless PC Intel® Tigerlake i3, i5 Processor



## Features

- Intel® Tiger lake i3-1115G4 3.0G (8M Cache, up to 4.1GHz)
- Intel® Tiger lake i5-1135G7 2.4G (8M Cache, up to 4.2GHz)
- 1 x SDRAM DDR4 3200 MHz (max. 32G)
- 4 x Gigabit LAN
- 3 x DP/HDMI independent video output

## Specifications

### System

|                |                                                                                                           |
|----------------|-----------------------------------------------------------------------------------------------------------|
| CPU            | Intel®Tiger lake i3-1115G4 3.0GHz /<br>Intel®Tiger lake i5-1135G7 2.4GHz                                  |
| Memory         | 1 x SDRAM DDR4 3200 MHz (max. 32G)<br>4GB WT DDR4 SO-DIMM pre-installed*(CTOS)                            |
| Graphics       | Intel®Iris®Xe graphics, up to 96 graphics<br>execution units (EU)                                         |
| LAN chipset    | 1 x RJ45 Intel i219LM for 10/100/1000 Mbps<br>3 x RJ45 Intel i210 for 10/100/1000 Mbps<br>(Colay 1211GbE) |
| Watchdog Timer | Programmable 255 levels timer interval,<br>from 1~255 sec/min                                             |

### I/O

|              |                                                                                    |
|--------------|------------------------------------------------------------------------------------|
| Serial Ports | 4 x RS232/RS422/RS485 (default RS-232)<br>with auto flow control                   |
| USB Ports    | 3 x USB3.2 Gen. 2<br>3 x USB2.0                                                    |
| LAN          | 4 x RJ45                                                                           |
| Video Ports  | 2 x HDMI up to 4K x 2K x 24bpp @ 24 Hz<br>1 x DP up to 4096 x 2304 x 36bpp @ 60 Hz |
| Remote       | 1 x SW                                                                             |

### Power

|             |                                   |
|-------------|-----------------------------------|
| Power Input | 10-36VDC, 2-pin phoenix connector |
|-------------|-----------------------------------|

### Audio

|      |                                             |
|------|---------------------------------------------|
| Type | 1 x Audio (Line-out & Mic-in) Chip 8885/897 |
|------|---------------------------------------------|

### Software Support

|                |                          |
|----------------|--------------------------|
| OS Information | Windows 10, Ubuntu 20.04 |
|----------------|--------------------------|

### Storage

|        |                                                                                           |
|--------|-------------------------------------------------------------------------------------------|
| Device | 1 x SATA 3.1 (2.5" HD)<br>1 x M.2 2242 (SATA3.0)<br>128GB M.2 WT SSD pre-installed*(CTOS) |
|--------|-------------------------------------------------------------------------------------------|

### Expansion

|                |                                                                                              |
|----------------|----------------------------------------------------------------------------------------------|
| Expansion Slot | 1 x E-Key M.2 2230 slot (PCIe X1 / USB2.0 signal)<br>1 x mPCIe (PCIe/ USB2.0/USB 3.0 signal) |
| SIM Card       | 1 x SIM Card socket for 3G/4G module                                                         |
| USB 2.0 Ports  | 2 x USB2.0 by Pinhead                                                                        |
| COM Ports      | 2 x COM232 by Pinhead                                                                        |
| GPIO           | 1 x 8 bit programmable GPIO pin<br>header(3.3 / 5V Jump adjustable)                          |

### Environment

|                    |                                                |
|--------------------|------------------------------------------------|
| Operating Temp.    | -20°C ~ 60°C                                   |
| Storage Temp.      | -40°C ~ 85°C                                   |
| Operating Humidity | 5 ~ 95% (non-condensing)                       |
| Random Vibration   | 5~500Hz, 2Grms, operation                      |
| Shock              | Operation: 10G@11ms<br>Non-operation: 30G@11ms |

### Certification Information ( in process )

CE, FCC

### Physical

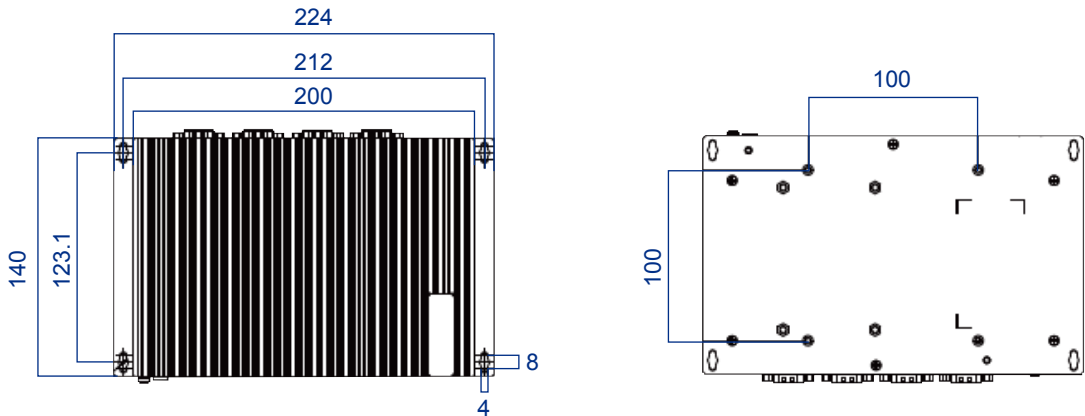
|                            |                                                                                             |
|----------------------------|---------------------------------------------------------------------------------------------|
| Button                     | 1 x Power button W/Led                                                                      |
| Chassis                    | Aluminum Alloy                                                                              |
| Mounting                   | Desk-Mount, Wall-Mount, DIN-Rail (optional)<br>VESA-mount (75 x 75mm, 100 x 100mm optional) |
| Dimension (W x H x D) (mm) | 224 x 49.2 x 140                                                                            |
| Weight                     | 1.6kg                                                                                       |

\*CTOS means Configure-to-Order Service.

## Product view



## Mechanical Drawings (Unit = mm )



## Ordering Codes

| Model Number     | Description                                                                                                                   |
|------------------|-------------------------------------------------------------------------------------------------------------------------------|
| CBX-RB11244FL/i3 | Fanless System with, Intel Tiger lake i3-1115G4, 4 x LAN, 4 x COM (up to 6), 6 x USB, 2 x HDMI, 1 x DP, DC 10-36V power input |
| CBX-RB11244FL/i5 | Fanless System with, Intel Tiger lake i5-1135G7, 4 x LAN, 4 x COM (up to 6), 6 x USB, 2 x HDMI, 1 x DP, DC 10-36V power input |

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