

# Product Introduction

Poslab Technology / *poslab*

Ennoconn Group / 

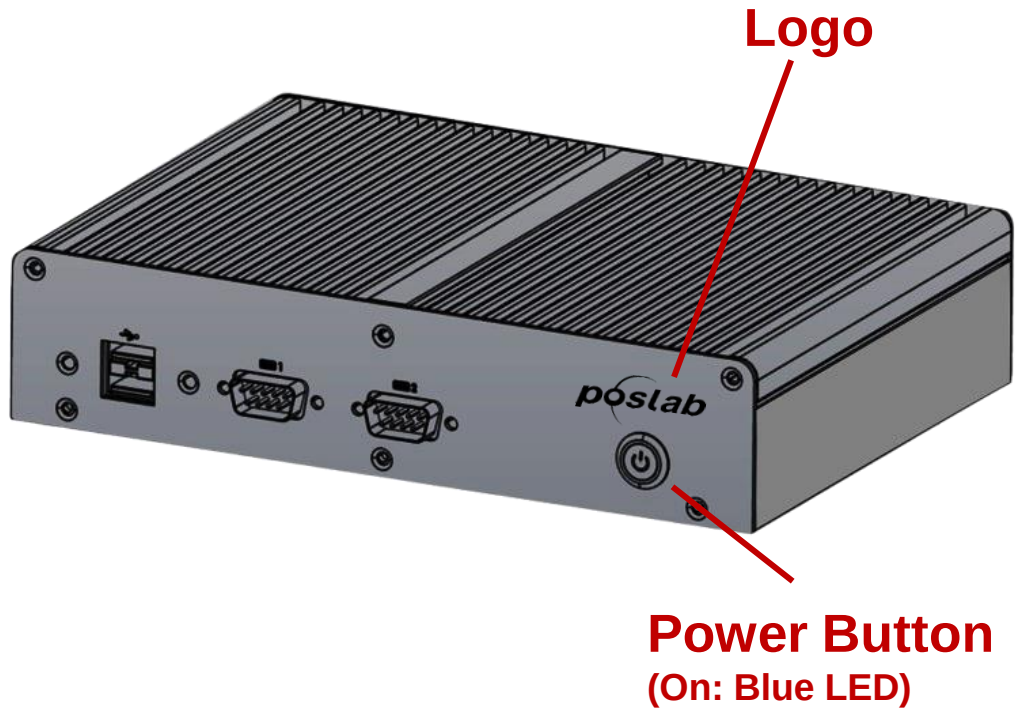
# BOX PC (BP200)

## Alder Lake

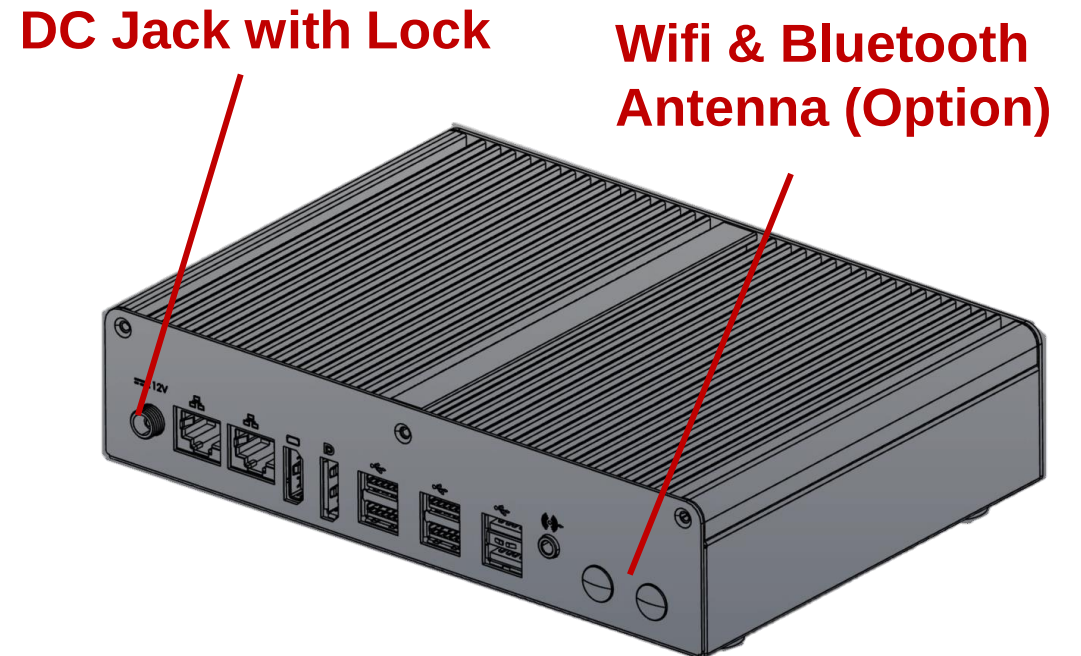


# Product Feature

## Front I/O



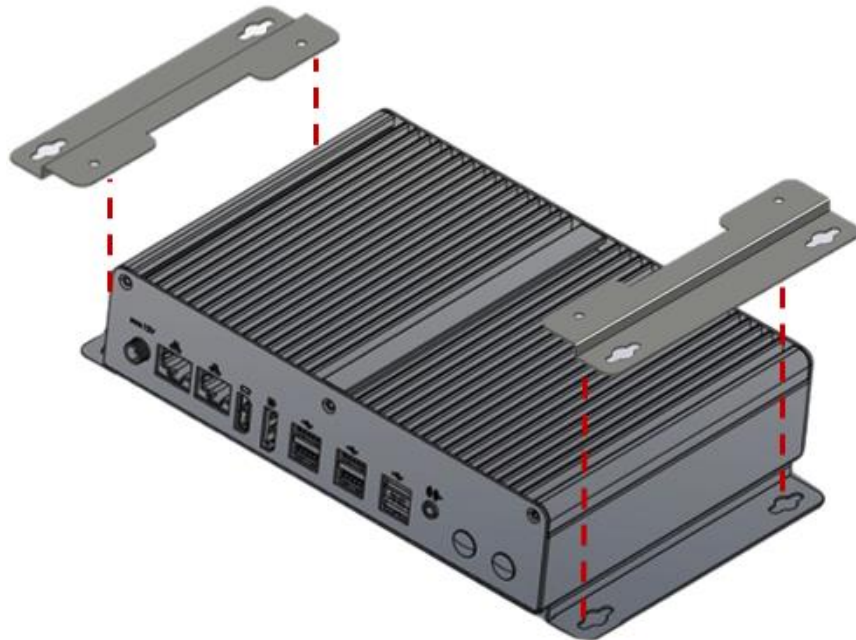
## Rear I/O



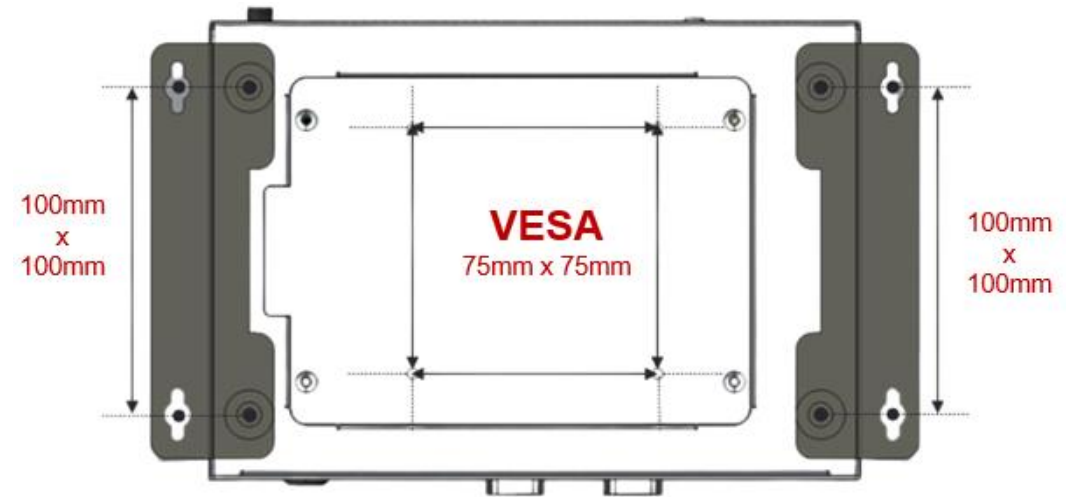
# Product Feature

## Wall Mount Support

Top Side



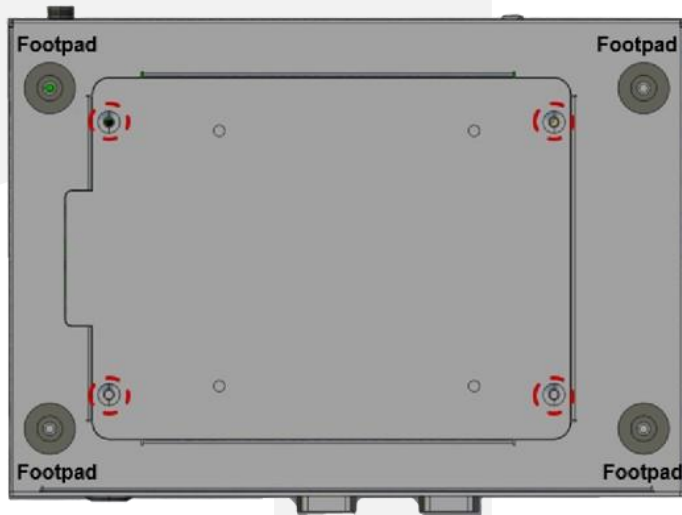
Bottom Side



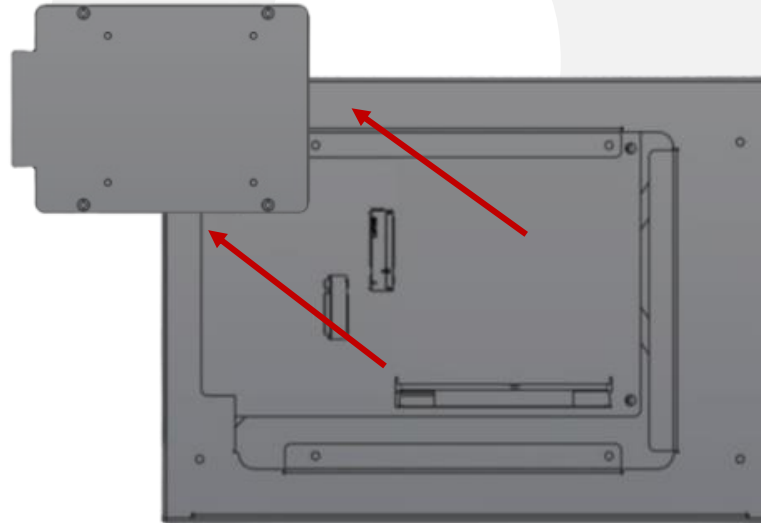
# Product Feature

## Replacement of RAM and SSD

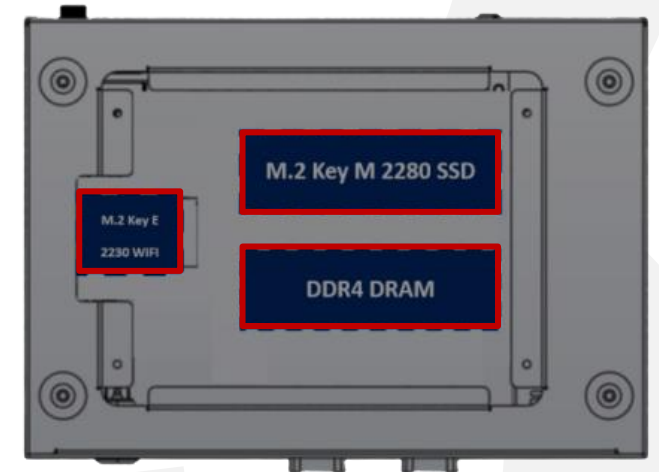
Release the screw x 4 pcs



Remove the back cover



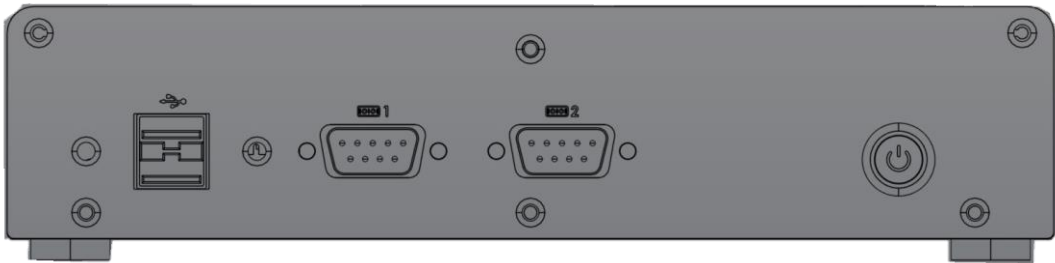
Free to change RAM/ SSD



# Product Feature

## I/O Introduction

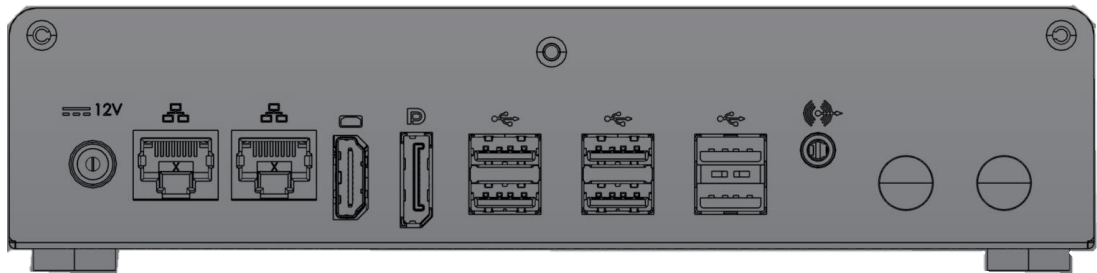
Front



|          |         |      |      |              |
|----------|---------|------|------|--------------|
| i3-1215U | USB 2.0 | COM1 | COM2 | Power Button |
| I5-1235U | USB 2.0 |      |      |              |

|     |         |      |      |              |
|-----|---------|------|------|--------------|
| N97 | USB 2.0 | COM1 | COM2 | Power Button |
|     | USB 2.0 |      |      |              |

Rear

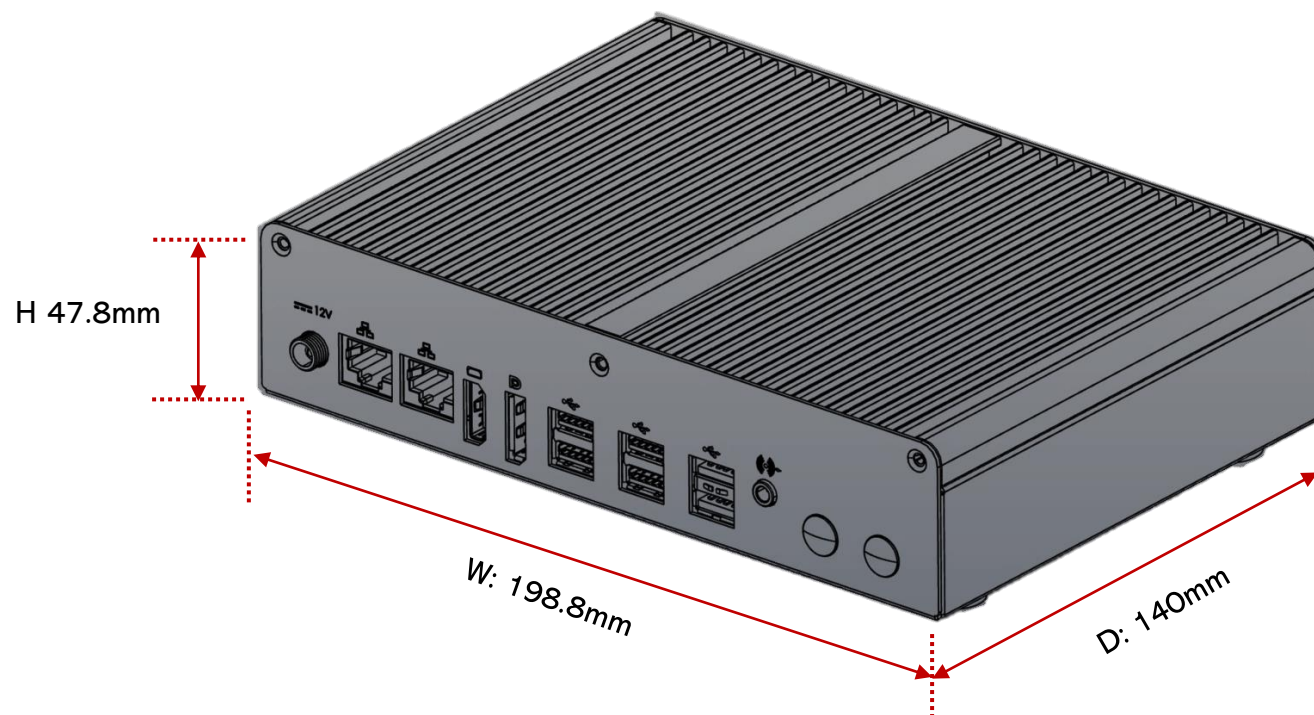


|        |      |      |      |    |         |         |         |          |                  |
|--------|------|------|------|----|---------|---------|---------|----------|------------------|
| DC 12V | LAN1 | LAN2 | HDMI | DP | USB 3.0 | USB 3.0 | USB 3.0 | Line Out | Antenna (Option) |
|        |      |      |      |    | USB 3.0 | USB 3.0 | USB 3.0 |          |                  |

|        |      |      |      |    |         |         |         |          |                  |
|--------|------|------|------|----|---------|---------|---------|----------|------------------|
| DC 12V | LAN1 | LAN2 | HDMI | DP | USB 3.0 | USB 3.0 | USB 2.0 | Line Out | Antenna (Option) |
|        |      |      |      |    | USB 3.0 | USB 3.0 | USB 2.0 |          |                  |

# Product Feature

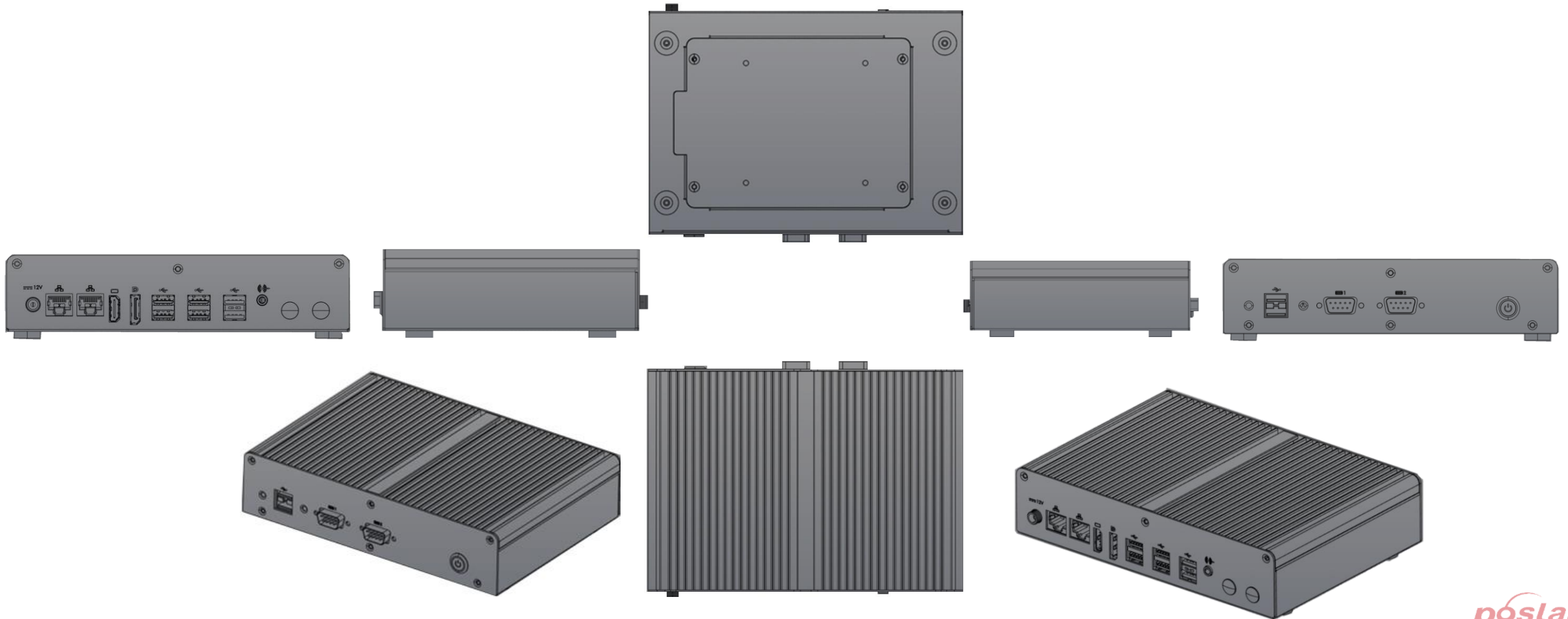
## Dimension





# Product Feature

## Schematic Diagram

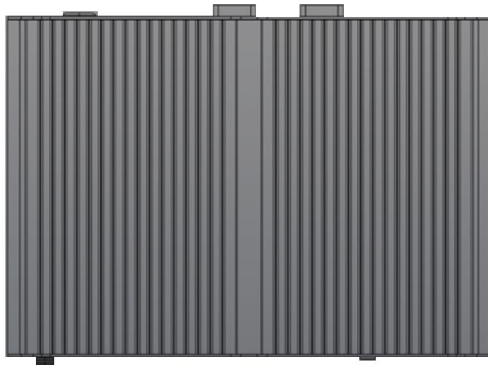




# Product Feature

## Color & Material

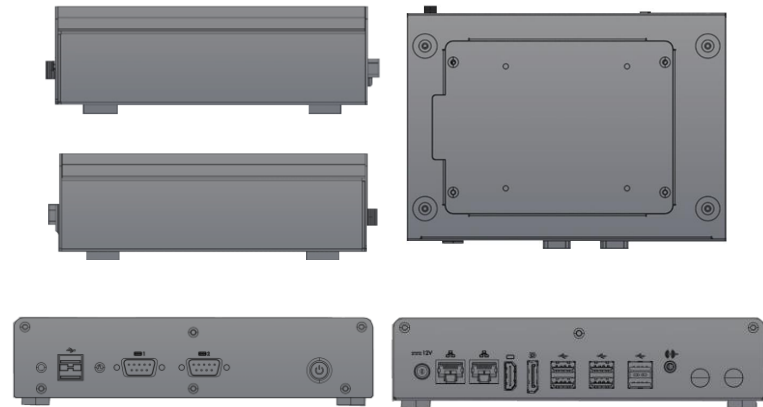
Black (Aluminum)



Silver plating



Black (Metal)



# Product Feature

## Specification

| MODEL             | BP200                                                                                                                                        |                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| CPU               | Intel® Alder Lake-N Series Processors<br>N97 Quad-core up to 3.6GHz                                                                          | Intel® Core™ Alder Lake-P Processor<br>Intel i3-1215U 1.20 GHz<br>Intel i5-1235U 1.30 GHz                                    |
| Memory            | 8GB DDR4 up to 16GB (x1 Slot)                                                                                                                | 8GB DDR4 up to 32GB (x1 Slot)                                                                                                |
| Storage           | SSD 128G, 1 x M.2 2280 Key M Slot<br>(PCIe/SATA Support NVMe)                                                                                | SSD 128G, 1 x M.2 2280 Key M Slot<br>(PCIe/SATA Support NVMe)                                                                |
| TPM               | TPM 2.0 (fTPM)                                                                                                                               |                                                                                                                              |
| Front IO          | 1x Power Button<br>2 x USB 2.0<br>2 x Full COM (RI/5V/12V)                                                                                   |                                                                                                                              |
| Rear IO           | 1 x DC 12V Input<br>1 x Giga LAN<br>1 x 2.5G LAN<br>1 x HDMI port<br>1 x Display port<br>4 x USB 3.0<br>2 x USB 2.0<br>1 x Line out + Mic in | 1 x DC 12V Input<br>1 x Giga LAN<br>1 x 2.5G LAN<br>1 x HDMI port<br>1 x Display port<br>6x USB 3.0<br>1 x Line out + Mic in |
| Wireless (Option) | 802.11ac / Bluetooth 5.1 (M.2 2230 AC9260)                                                                                                   |                                                                                                                              |
| Power Supply      | 60W/12V                                                                                                                                      |                                                                                                                              |
| Dimensions        | 198.9 x 140 x 47.8 mm                                                                                                                        |                                                                                                                              |
| Weight            | 1.5 kgs                                                                                                                                      |                                                                                                                              |
| OS                | Windows 10 LTSC / Windows 11                                                                                                                 |                                                                                                                              |
| Certifications    | CE / FCC Class B / LVD / UKCA                                                                                                                |                                                                                                                              |
| Environment       | Operation: 0°C ~ 40°C (32°F ~ 104°F)<br>Storage: -20°C ~ 60°C (-4°F ~ 140°F)                                                                 |                                                                                                                              |

# CPU Benchmark Comparison

|                                                   | Intel Celeron J6412 @ 2.00GHz                    | Intel N97                     | Intel Core i3-1115G4 @ 3.00GHz                   | Intel Core i3-1215U                              | Intel Core i5-1135G7 @ 2.40GHz | Intel Core i5-1235U            |
|---------------------------------------------------|--------------------------------------------------|-------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------|--------------------------------|
| Price                                             | <a href="#">Search Online</a>                    | <a href="#">Search Online</a> | <a href="#">Search Online</a>                    | <a href="#">Search Online</a>                    | <a href="#">Search Online</a>  | <a href="#">Search Online</a>  |
| Socket Type                                       | FCBGA1493                                        | FCBGA1264                     | FCBGA1449                                        | FCBGA1744                                        | BGA1526                        | FCBGA1744                      |
| CPU Class                                         | Mobile/Embedded                                  | Mobile/Embedded               | Laptop                                           | Laptop                                           | Laptop                         | Laptop, Mobile/Embedded        |
| Clocksperd                                        | 2.0 GHz                                          | NA <sup>2</sup>               | 3.0 GHz                                          | 1.2 GHz                                          | 2.4 GHz                        | 1.3 GHz                        |
| Turbo Speed                                       | Up to 2.6 GHz                                    | Up to 3.6 GHz                 | Up to 4.1 GHz                                    | Up to 4.4 GHz                                    | Up to 4.2 GHz                  | Up to 4.4 GHz                  |
| # of Physical Cores                               | 4 (Threads: 4)                                   | 4 (Threads: 4)                | 2 (Threads: 4)                                   | 6 (Threads: 8)                                   | 4 (Threads: 8)                 | 10 (Threads: 12)               |
| Cache                                             | L1: 256KB, L2: 1.5MB, L3: 4MB                    | L1: 384KB, L2: 2.0MB, L3: 6MB | L1: 160KB, L2: 2.5MB, L3: 6MB                    | L1: 544KB, L2: 4.5MB, L3: 10MB                   | L1: 320KB, L2: 5.0MB, L3: 8MB  | L1: 928KB, L2: 6.5MB, L3: 12MB |
| TDP                                               | 10W                                              | 12W                           | 15W                                              | 15W                                              | 15W                            | 15W                            |
| Yearly Running Cost                               | \$1.83                                           | \$2.19                        | \$2.74                                           | \$2.74                                           | \$2.74                         | \$2.74                         |
| Other                                             | Intel UHD Graphics for 10th Gen Intel Processors | Intel UHD Graphics            | Intel UHD Graphics for 11th Gen Intel Processors | Intel UHD Graphics for 12th Gen Intel Processors | Intel Iris Xe Graphics         | Intel Iris Xe Graphics         |
| First Seen on Chart                               | Q3 2021                                          | Q2 2023                       | Q4 2020                                          | Q1 2022                                          | Q3 2020                        | Q1 2022                        |
| # of Samples                                      | 88                                               | 43                            | 1454                                             | 633                                              | 5807                           | 1656                           |
| CPU Value                                         | 71.4                                             | 46.3                          | 21.8                                             | 0.0                                              | 31.8                           | 43.6                           |
| Single Thread Rating<br>(% diff. to max in group) | 1382<br>(-58.6%)                                 | 2131<br>(-36.1%)              | 2649<br>(-20.5%)                                 | 3334<br>(0.0%)                                   | 2690<br>(-19.3%)               | 3231<br>(-3.1%)                |
| CPU Mark                                          | <b>3856</b>                                      | <b>5932</b>                   | <b>6114</b>                                      | <b>11051</b>                                     | <b>9827</b>                    | <b>13481</b>                   |

# Product Feature

## Package List

**BOX PC  
(BP200)**



**Wall mount  
bracket**



**Power Adapter  
(60W)**



**Power AC Cord**



# Thank you

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