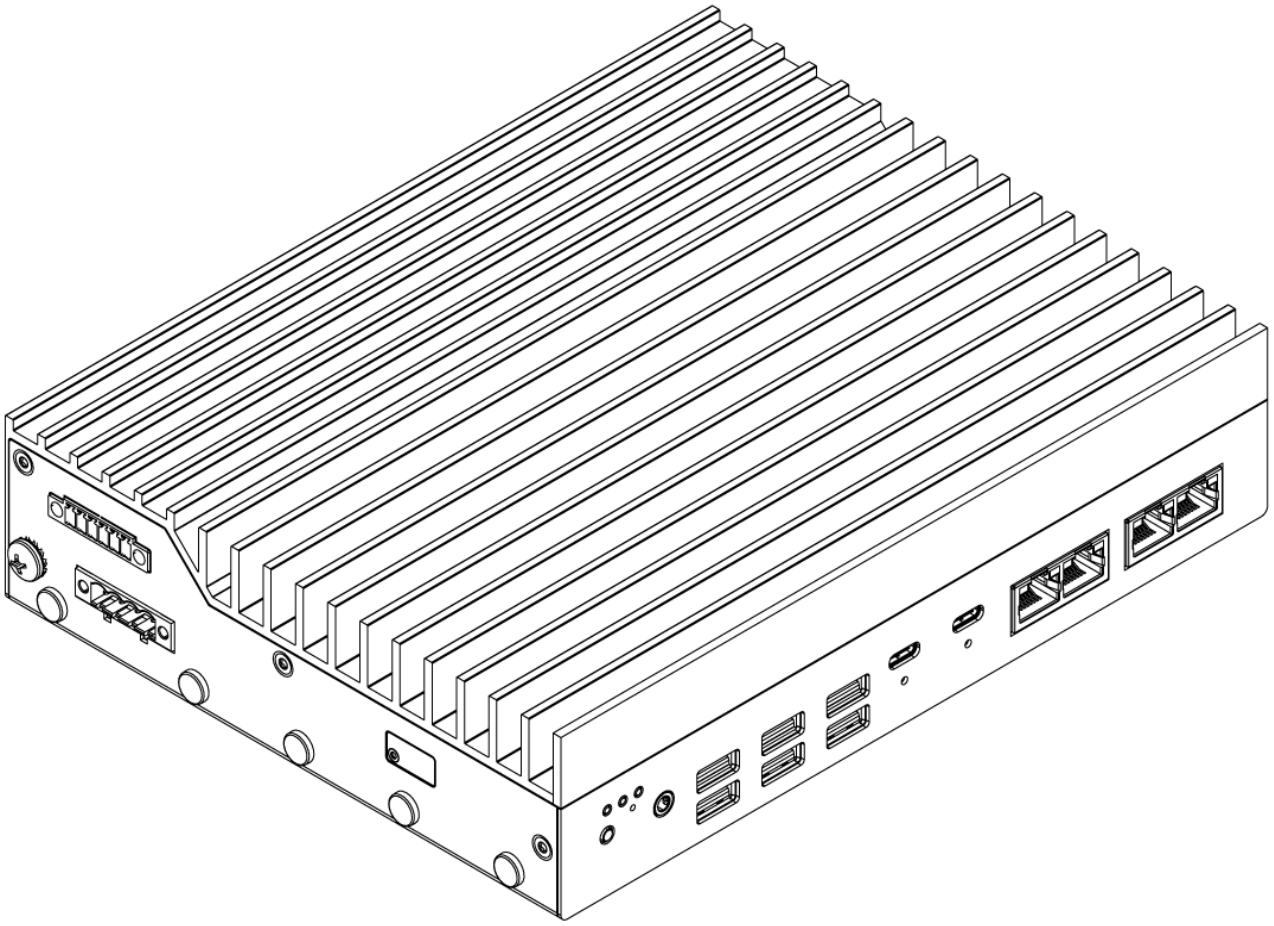
HX520 Series Hardware Installation and Maintenance Manual



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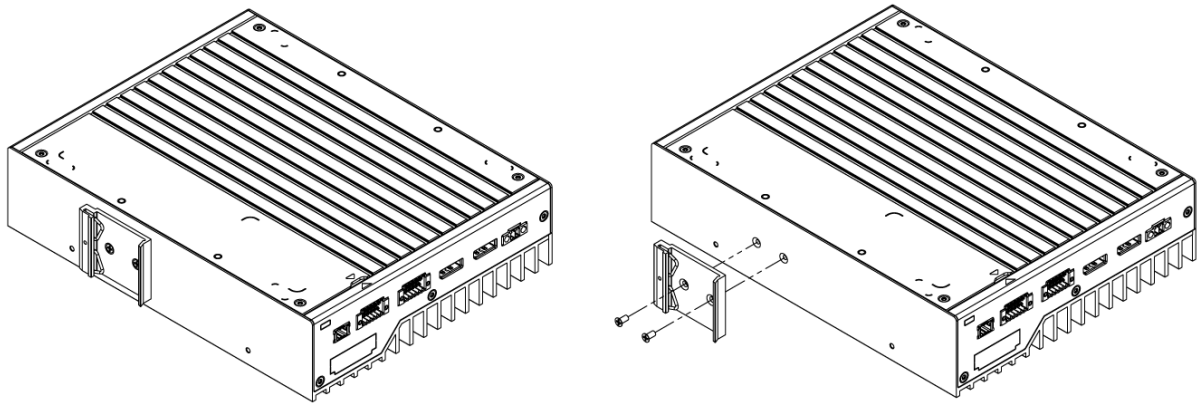
1 - Revision History

Revision	Description	Date
1.0	Initial Release	04/22/2025

2 - Mounting Options

2.1 - HX521 DIN Clip (MTD103/MTD109)



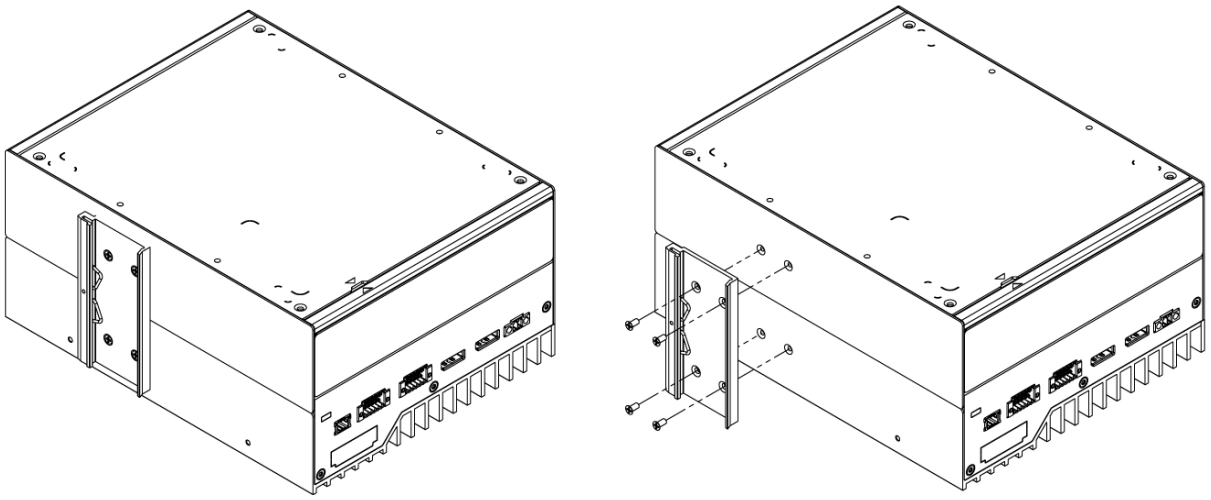
Step 1: Remove the two screws in the rear of the system.

Step 2: Align the two screw holes on the back of the system with the holes in the DIN clip.

Step 3: Fasten the din clip with the screws removed in step 1 (M3X0.5 Flathead Screw, 6mm Long)
WARNING: Using a screw longer than 6mm may damage the system.

Step 4: Hook the spring side of the DIN clip onto the DIN rail, then press firmly until the clip snaps over the other side of the rail.

2.2 - HX522-HX525 DIN Clip (MTD110)



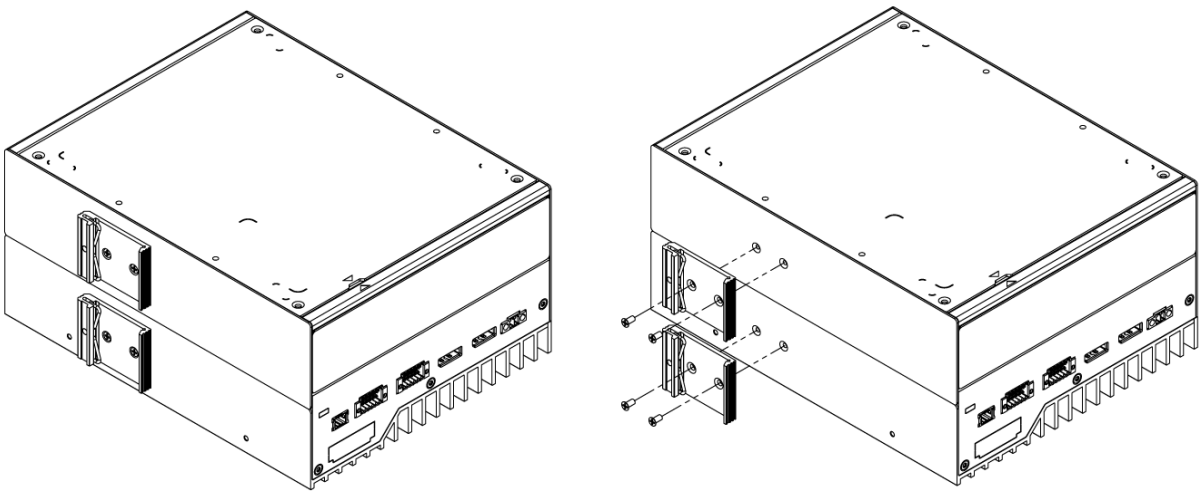
Step 1: Remove the four screws in the rear of the system.

Step 2: Align the four screw holes on the back of the system with the holes in the DIN clip.

Step 3: Fasten the DIN clip with the screws removed in step 1 (M3X0.5 Flathead Screw, 6mm Long)
WARNING: Using a screw longer than 6mm may damage the system.

Step 4: Hook the spring side of the DIN clip onto the DIN rail, then press firmly until the clip snaps over the other side of the rail.

2.3 - HX522-HX525 Dual DIN Clip (2x MTD103)



Step 1: Remove the four screws in the rear of the system.

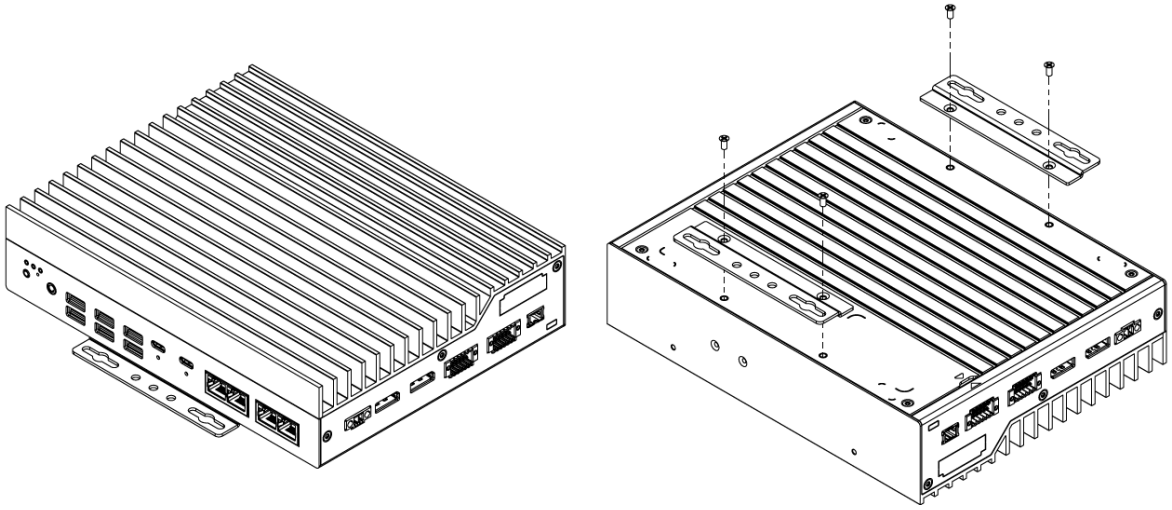
Step 2: Align the first 2 screw holes on the back of the system with the holes in the DIN clip.

Step 3: Fasten the DIN clip with the screws removed in step 1 (M3X0.5 Flathead Screw, 6mm Long)
WARNING: Using a screw longer than 6mm may damage the system.

Step 4: Repeat steps 2-3 for the second DIN clip. Ensure the second DIN clip is oriented in the same direction as the first DIN clip

Step 5: Hook the spring side of the DIN clip onto the DIN rail, then press firmly until the clip snaps over the other side of the rail.

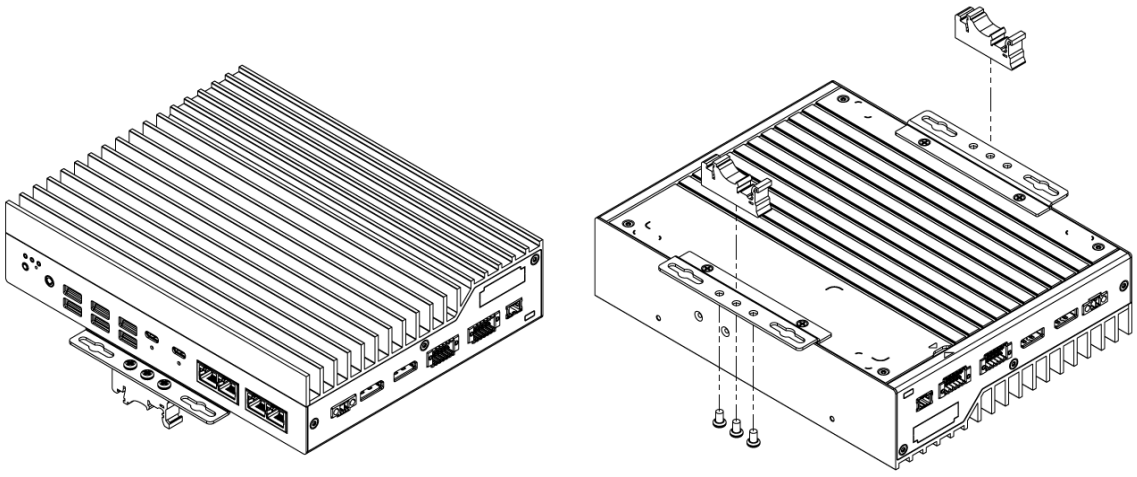
2.4 - Wall Mount Bracket (MTW101)



Step 1: Align the four screw holes on the bottom of the system with the respective holes on the mounting brackets.

Step 2: Attach wall mounting brackets (MTW101) or DIN mount Bracket (MTD102-K), to the system using the supplied M3 screws (M3X0.5 Flathead Screw, 4mm Long).

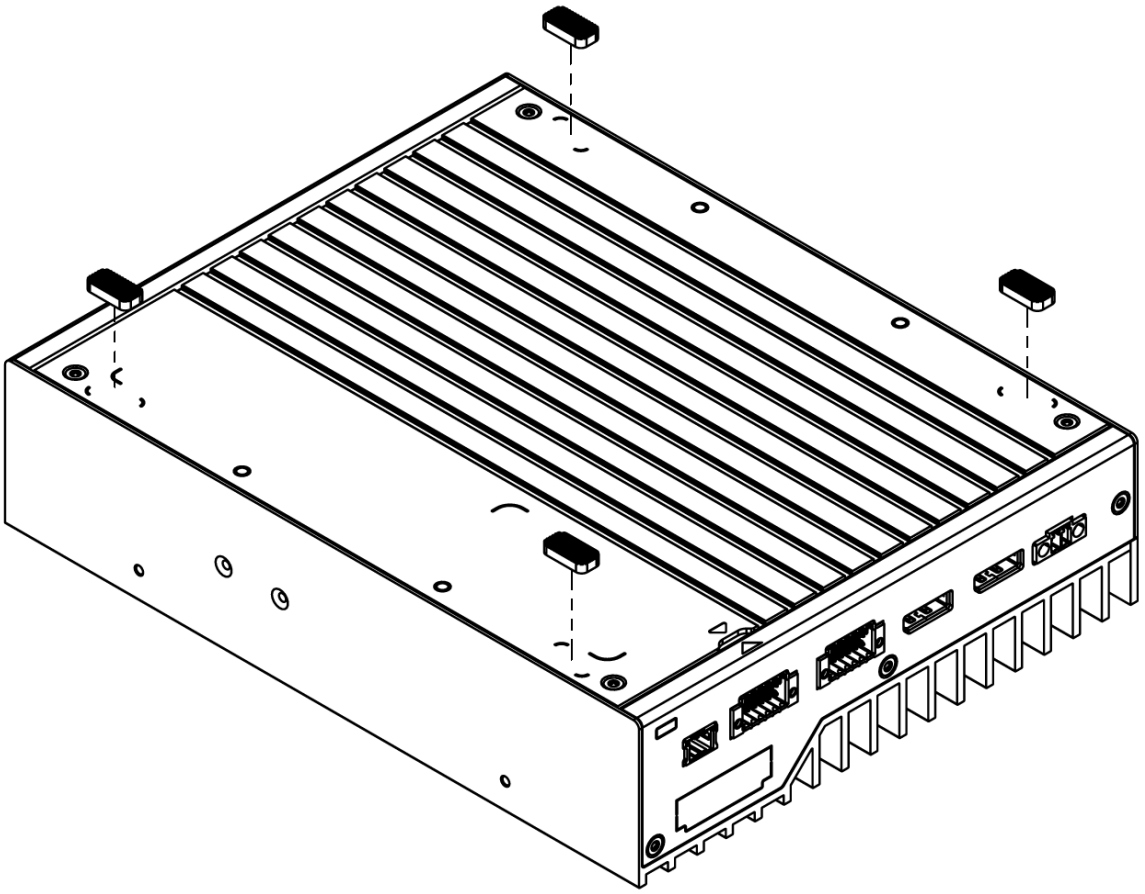
Step 3 (Wall Mount only): Install system to surface using keyhole slots on wall mount brackets and appropriate hardware for the surface (not provided).



Step 4 (DIN Bracket only): Align the mounting holes of the din clip bracket to the three mounting holes on the wall mount bracket. Install the 6x M4 screws (M4x0.7 Self Tapping, Philips Head, 6mm Long) to secure the DIN clip.

Step 5 (DIN Bracket only): Hook the solid side of the DIN clip onto the DIN rail, then press firmly until the clip snaps over the other side of the rail.

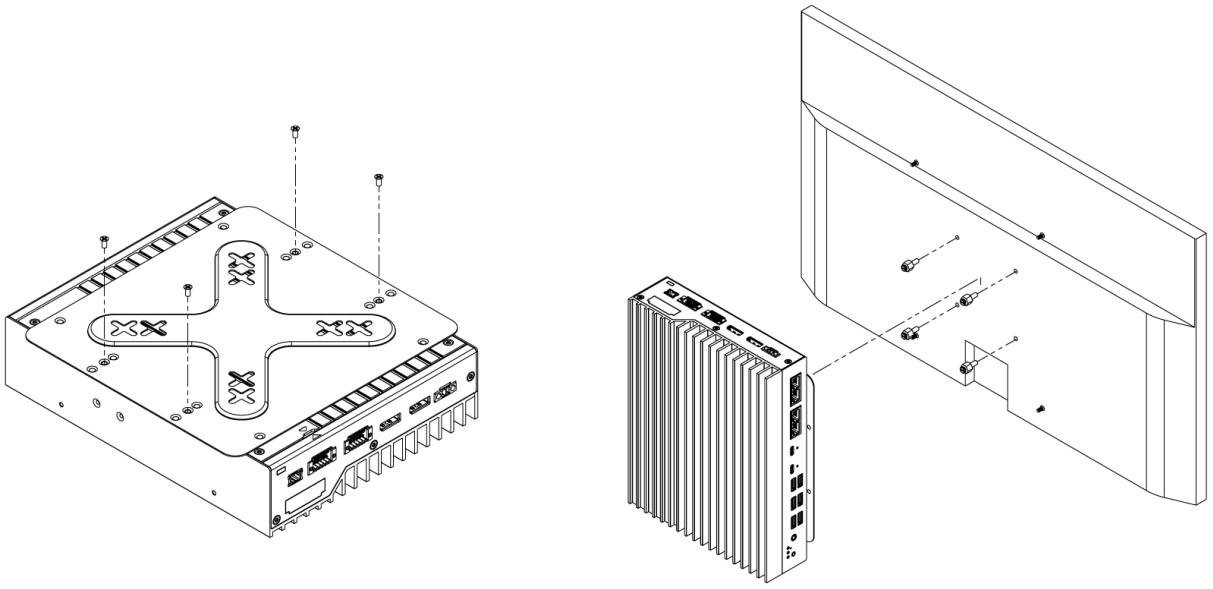
2.5 - Rubber Feet (MTF100)



Step 1: Peel feet from adhesive.

Step 2: Align feet with markings on Secondary Heatsink as shown.

2.6 - VESA (VMPL-2022)

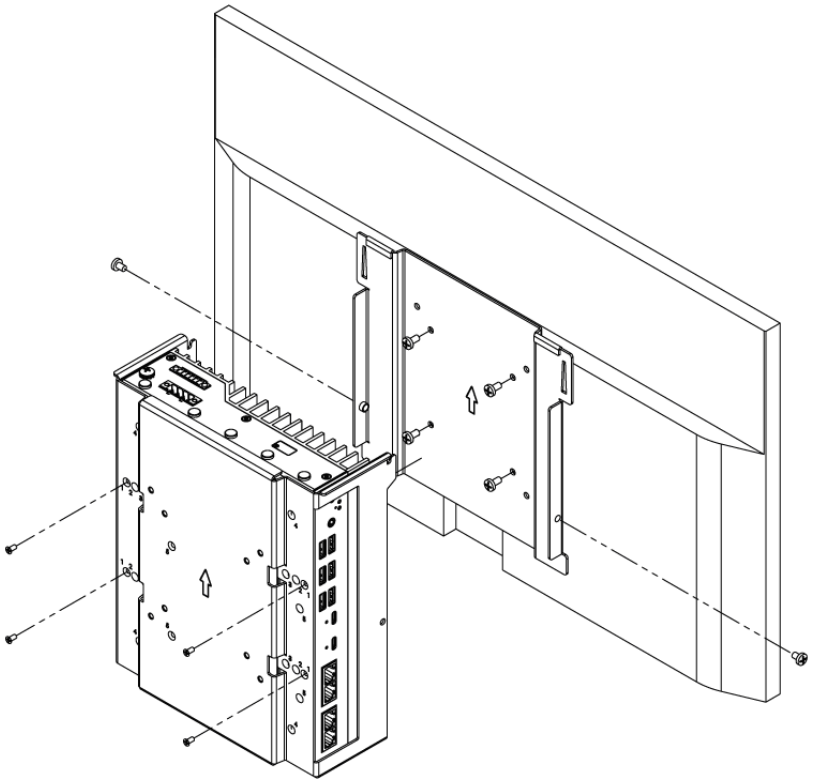


Step 1: Align the four screw holes on the bottom of the system with the respective holes on the VESA bracket.

Step 2: Attach VESA Bracket to the system using the supplied M3 screws (M3X0.5 Flathead Screw, 4mm Long) Use a torque of at least 200 N-cm (18 in-lbs) to attach the bracket.

Step 3: Install the system to VESA 75 or VESA 100 mounting pattern using provided VESA Mount screws.

2.7 - VESA In-Series (VMPL-2024/VMPL-HX52x)



Step 1: Separate the two bracket segments by first removing the M4 screw on either side of the bracket (M4X0.7 Phillips head, 6 mm long). With the screws removed, the bracket segments can be separated by removing the smaller bracket from the hooked tabs on the top edge of the larger bracket.

Step 2: Align the screw holes indicated with “1” marking with the bottom holes of the system. Secure the system using the 4x supplied M3 screws (M3X0.5 Flathead Screw, 6mm Long). Use a torque of at least 200 N-cm (18 in-lbs) to attach the bracket.

Step 3: Install the large bracket/system assembly to a VESA 75 or VESA 100 mounting pattern on a monitor stand/arm using the provided M4x0.7 8mm length screws. Note the arrow marking on the bracket indicating which side of the bracket should be facing UP.

Step 4: Install the remaining smaller bracket to a monitor VESA 75 or VESA 100 mounting pattern using the provided M4x0.7 8mm long screws. Note the arrow marking on the bracket indicating which side of the bracket should be facing UP.

Step 5: Install the small bracket/monitor assembly to the large bracket/system assembly on the mounting arm by aligning the hooks/tabs and slot the pieces together. Secure the bracket segments together using the 2x M4 screws removed in Step 1.

3 - Safety Precautions, Safeguards & Information

Do not open and modify the device! The device complies with various national and international Safety, EMC and Environmental requirements per various standards.

Modification of the device may void certifications, warranty and/or cause possible injury to the user.

Safe use and installation instructions

1. Care must be taken handling the device to prevent injury to self or possibility of damaging the unit.
2. Read the entire manual before using the product.
3. Install the device securely per users manual instructions.
4. Wall or ceiling mounting device requires use of OnLogic mounting plate or bracket.
5. Use M3x0.5mm Flat Head screws to attach mounting plate or mounting brackets to threaded holes on bottom or rear of chassis. Screws should be a minimum length of 4mm. Add 1mm of screw length for every mm of additional thickness of plate or bracket beyond 1.5mm.

Caution, Hot Surface! It is normal for the unit to heat up and be hot to touch. **Do not touch** the heatsink area or enclosure during operation and 30 minutes after shutdown allowing the unit to cool down.

7. Ambient operating temperature must be between 0 °C to 50 °C with a non-condensing relative humidity of 10-85%.
8. The device can be stored at temperatures between -40 °C to 85 °C. Note: Unit must be stabilized within operating temperature before use, minimum 3 hour.
9. Keep the device away from liquids and flammable materials. Not to be installed in a hazardous environment.
10. Do not clean the device with liquids. The chassis can be cleaned with a dry cloth or duster only. To prevent injury to self and/or damage to the device the unit must be powered down and all connecting power and other peripherals shall be disconnected prior to cleaning.
11. Allow adequate space around all sides of the device for proper cooling and to not exceed its maximum operating temperature limit. If the device is mounted to a vertical surface then recommended device orientation is such that heatsink fins allow air to rise unobstructed. Alternative orientations may result in reduced operational temperature range.
12. This device is intended for indoor operation only.

Caution, Risk of Electric Shock! Unit is powered by low voltage DC (Direct Current) only! Do not connect AC (Alternating Current) into the device!

14. To power the device use only UL ITE Listed external power supplies with DC output of 12-24VDC, see specs for details.
15. Install the device only with shielded network cables.
16. The installer should be experienced in aftermarket installation and familiar with general practices for installing electronics.
17. Service and repair of the device must be done by qualified skilled service personnel. This includes, but is not limited to, replacement of the CMOS battery. Replacement CMOS battery must be UL recognized and of a similar type as the original.
18. Proper disposal of the CMOS battery must comply with local governance.
19. Radio device is not intended for emergency service use.

20. To protect against excessive RF exposure, maintain at least 20cm from any user and the RF antennas. Only use provided dual band PIFA antennas with 2dBi/2dBi gain (2.4 and 5Ghz) for Wifi/BT.
21. This equipment is not suitable for use in locations where children are likely to be present.

WARNING: There is danger of explosion if the CMOS battery is replaced incorrectly. Disposal of battery into fire or a hot oven, or mechanically crushing or cutting of a battery can result in an explosion.