Parsec 5G Antenna

Installation Instructions

Required Tools & Accessories

Phillips Screwdriver
5/16" 5 in.-lb Torque Wrench
7/32" Drill Bit

Provided Tools & Accessories

5mm Allen Key
Set of Qty. 4 Suction Cups
Set of Qty. 3 wall anchors and screws
Set of Qty. 2 TS9(M) – SMA(F) Adapters

Mounting Options

Antenna Mounting Location Directions

When selecting the location of an antenna, consider the following factors:

1. **The ideal mounting location is as far as possible from other electrical devices and appliances and as high as possible within reach.**
2. **The ideal location may vary depending on the area where the antenna is being installed. For additional information, please see below.**
3. Electrical devices and appliances, such as refrigerators, microwaves, AC units, and cameras, can cause electromagnetic interference with the antenna signal.
   Antennas should be installed as far away as possible from each other and other electronic devices. In general, separate antennas by at least 24 inches (61 cm).
4. **Coaxial cables should not be bent sharply or pinched/crimped.**

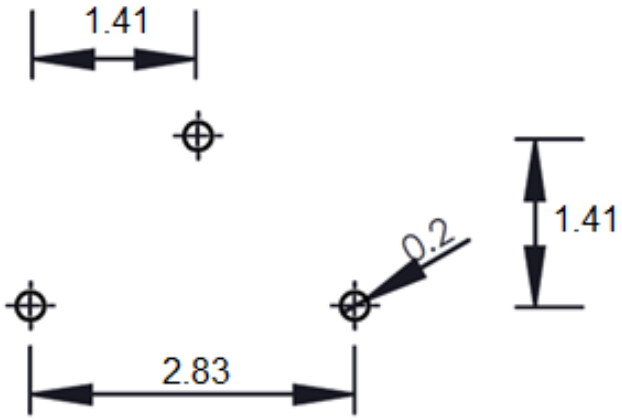
Hardware Accessories

Accessory	*Part Number*
Replacement Wall Mount Screws & Anchors	PTA0891
5mm Allen Key for Desk Mount	PTA0916
Qty. 4: Suction Cups with Studs for Desk Mount	PTA0893
Qty. 2: SMA(F) – TS9(M) Adapters	PTA0894
Replacement Desk Mount	PTA0895
SMA Wrench, Key Chain	PTA0194

Wall Mount: Hanging

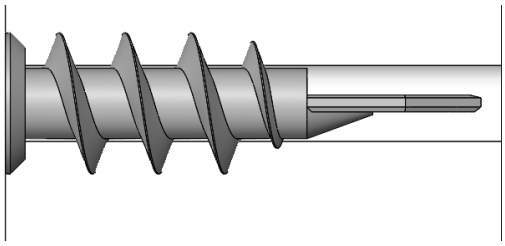
1. Select the mounting location.
    A. To avoid de-tuning or interference issues, install the antenna as far away as possible from other devices (minimum 24 inches), including lights, AC units, routers, and other antennas.
    B. For multiple Parsec 5G antennas, antennas must be separated at least 12 inches vertically or 24 inches horizontally.
    C. Mount the antenna so that it is centered on a wall stud.
    D. If possible, we recommend using an electronic stud finder or a strong magnet to ensure that there is no metal in the wall behind the antenna. Metal will cause interference with the antenna and the antenna performance will be compromised.

2. Drill three 7/32" diameter holes into the wall.
    A. Mark the locations of the holes as shown below or use the desk mount as a guide for marking the holes.

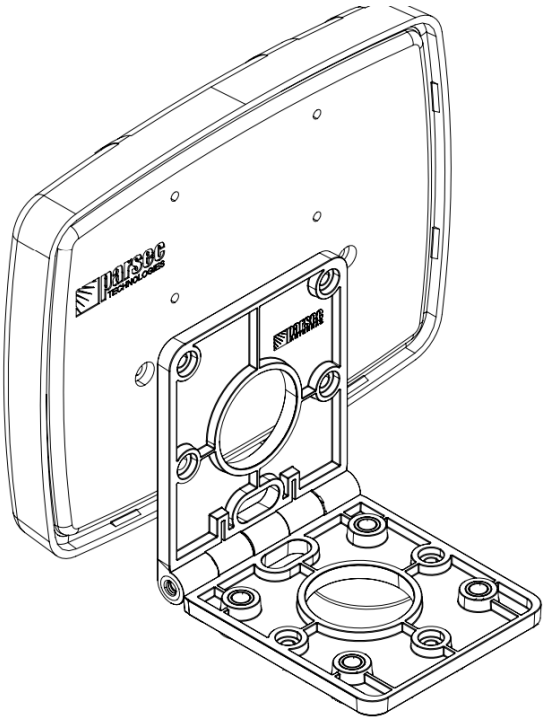


    B. Use a 7/32" diameter drill bit to drill holes at the marked locations.

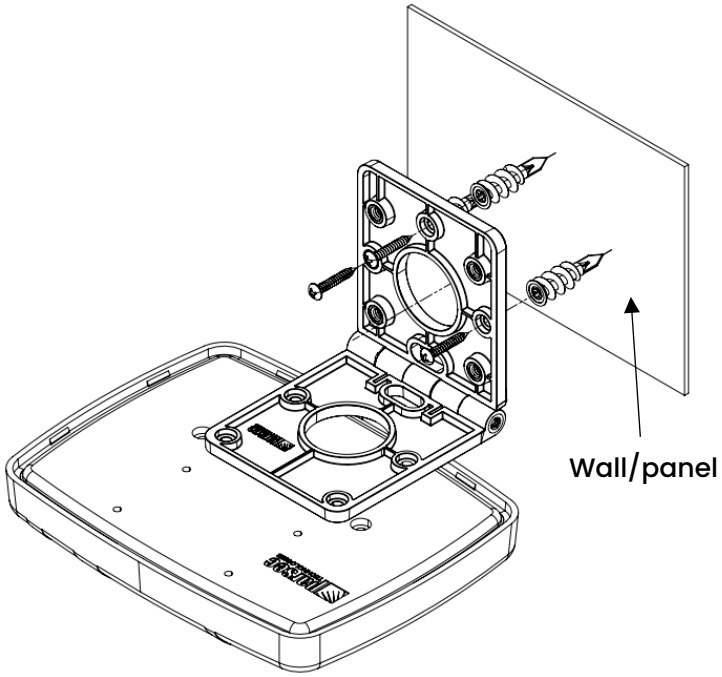
3. Install the provided wall anchors and screws into the wall.
    A. Insert the wall anchors into the holes. Ensure that the anchors are fully inserted.

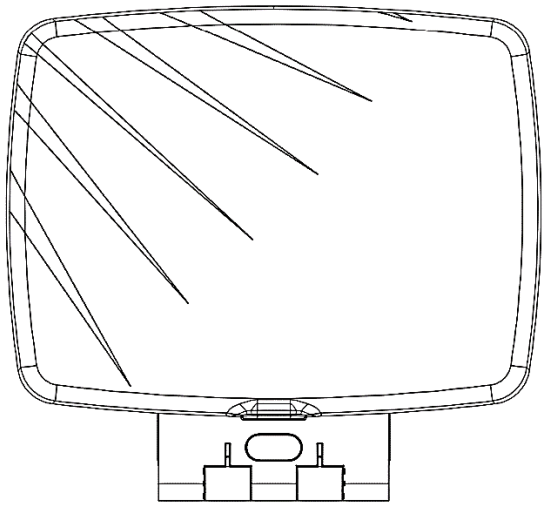


4. Mount the antenna to the wall.
    A. Use the PTA0916 5mm Allen Key to loosen the Desk Mount Bracket and enable it to rotate 90 degrees.



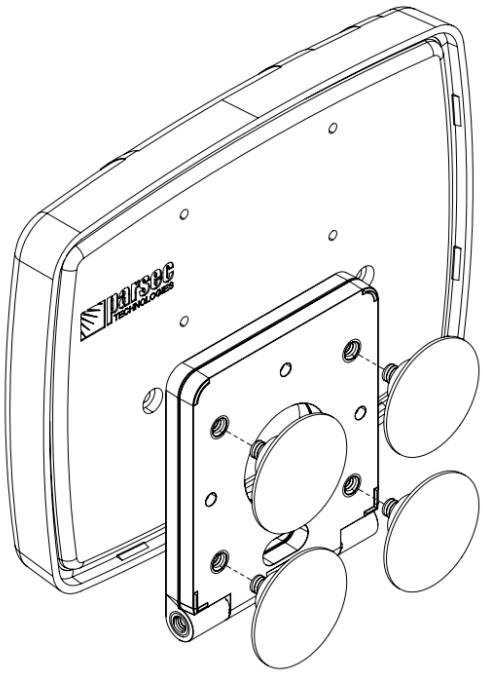
    B. Align the holes in the mounting bracket with the holes in the wall.
    C. Fasten the antenna to the wall using the three screws provided in the kit. Rotate the antenna back to the original position, so it is upright, as shown below:



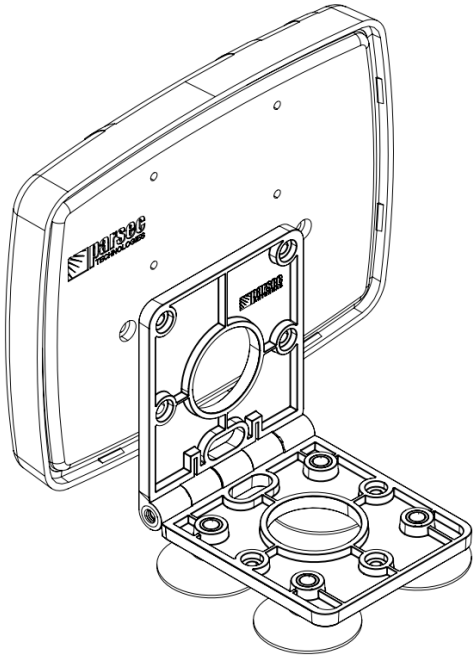


Desk Mount

1. Select the mounting location.
    A. To avoid de-tuning or interference issues, install the antenna as far away as possible from other devices (minimum 24 inches), including lights, AC units, routers, and other antennas.
    B. For multiple Parsec 5G antennas, antennas must be separated at least 12 inches vertically or 24 inches horizontally.
2. Screw the PTA0893 Suction Cup Mounts into the Desk Mount Bracket.

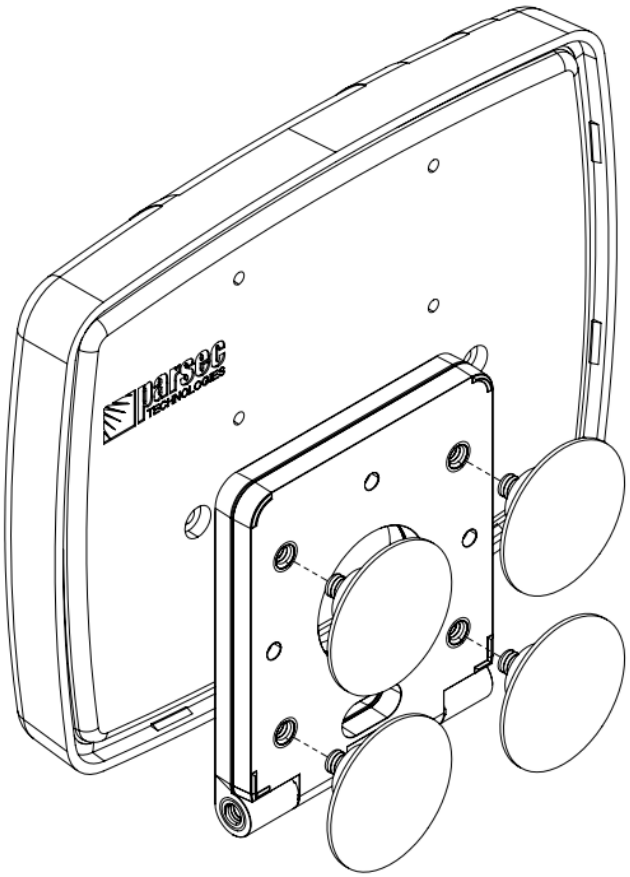


3. Use the PTA0916 5mm Allen Key to loosen the Desk Mount Bracket and enable it to rotate. Ensure the antenna is upright, as shown below.

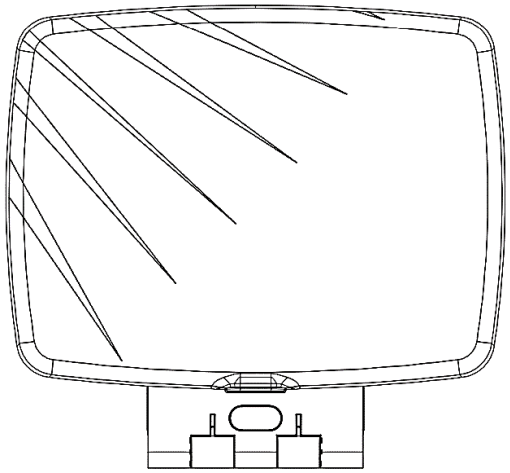


Window Mount

1. Select the mounting location.
    A. To avoid de-tuning or interference issues, install the antenna as far away as possible from other devices (minimum 24 inches), including lights, AC units, routers, and other antennas.
    B. For multiple Parsec 5G antennas, antennas must be separated at least 12 inches vertically or 24 inches horizontally.
2. Screw the PTA0893 Suction Cup Mounts into the Desk Mount Bracket.

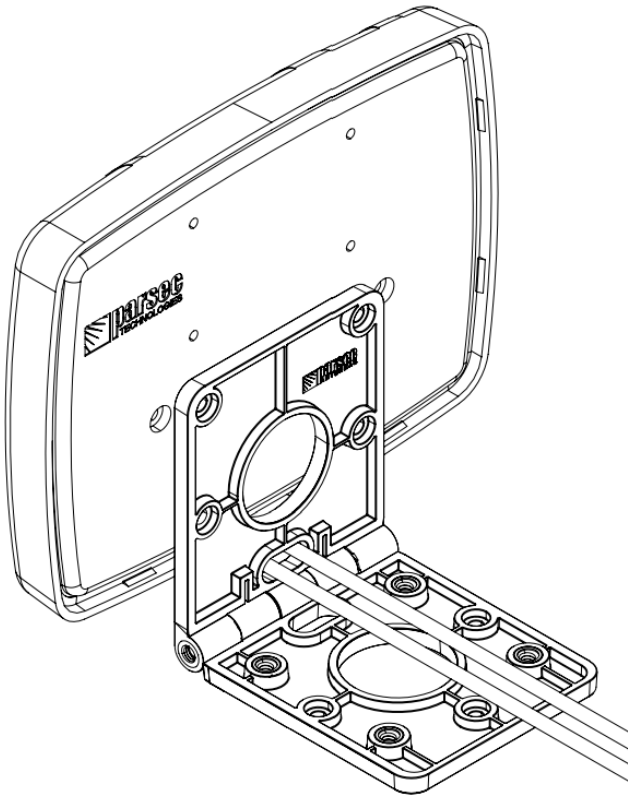


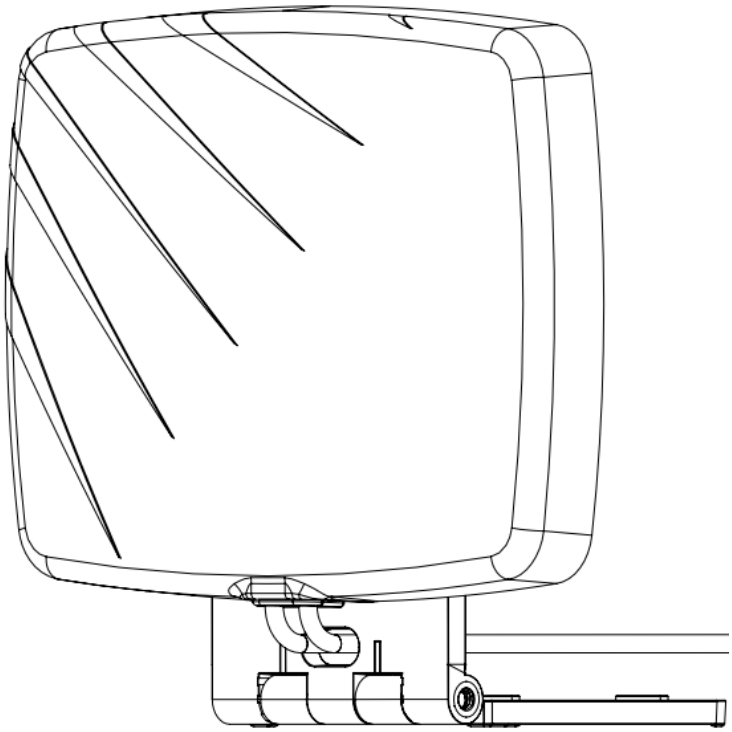
3. Install the Antenna on the Window. Ensure the antenna is upright, as shown below.



Routing the Cable

1. For the Wall Mount/Window Mount, ensure the cables do not have any sharp bends.
2. For the Desk Mount, pass the cables through the upright hole in the Desk Mount, just below the antenna, as shown below:





Cable Connection Instructions

1. For the best connection, we recommend using canned air to clean all the connectors to ensure that there is no dust in the terminals.
2. Connect the antenna cables to the terminals on the router and ensure they are screwed on finger tight. For the best connection, we recommend using a 5/16" torque wrench to tighten the connectors.
3. If using the TS9 Adapters, ensure that the adapters are screwed on to the SMA connectors prior to installing to the router.

Commission and Testing

Check each coaxial cable connector and confirm that it cannot be easily loosened. Visually inspect the coaxial cables to ensure that they are not sharply bent and are sufficiently secured and supported between the antenna and the router.

Use a cellular device's built-in diagnostics to confirm the RSSI is higher than -75dB. Confirm the cellular connection supports communications at required data rates.

Connect the cellular/LTE cables to the router and stow any unused coaxial cables to avoid damage.

CAUTION
To comply with FOC RF Exposure requirements in section 1.1310 of the FCC Rules, antennas used with this device must be installed to provide a separation distance of at least 20 cm from all persons to satisfy RF exposure compliance.

DO NOT
- Operate the transmitter when someone is within 24 inches of the antenna
- Install the antenna or mast assembly on a windy day
- Install the mast close to power lines as it can cause serious injuries or death

WARNING

Watch out for overhead power lines. Check the distance to power lines before beginning installation.

WARNING
This document gives the detailed instructions to install an antenna to the best of our knowledge. This document is for general information only. It cannot be used as a warranty. Parsec Technologies Inc. will not accept any liability for any damage caused by an antenna due to unknown variables.

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