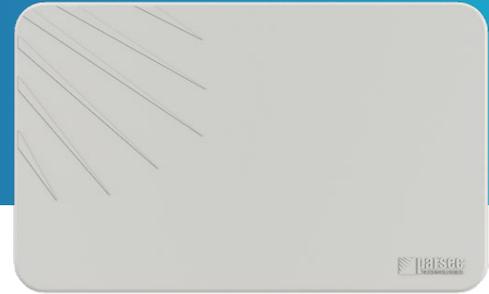


AKITA

Installation Instructions



Parsec's Akita Series antenna is a compact wall mount, or pole mount 4X4 MIMO LTE external antenna covering 617 MHz to 6 GHz. This unobtrusive omni-directional antenna works on all LTE bands 617 – 6000 MHz with high efficiency. The Akita is optimized for attachment to a sheetrock wall in an office environment. It is ideally suited to indoor applications where a higher performance alternative to screw on antennas is required.

REQUIRED TOOLS

Hammer / Rubber Mallet

Drill

Phillips Screwdriver

Mounting Options

Step 1.

Select a mounting location where there is no obstructions within a radius of 24in. and is easily accessible.

Step 2.

Select one of the mounting option below, depending on your use.

- **Wall Hanging (Included)**

Using wall plugs and screws, the antenna can be mounted on a wall or any flat surface. Screw in the wall plugs 6.22 inches apart on the wall to properly secure the antenna. (Figure 1)

- **Wall Mounting (Included)**

Using the four 1/4 - 20 - 3/4 inch screws, the antenna can be mounted on a panel or a wall. (Figure 2)

- **Pole Mount (Included)**

The gear clamp assembly can be used to mount the antenna on a mast of between 2.0" and 3.5" diameter. (Figure 3)

- **Strap Mount (Not Included - PTA0459)**

Two nylon straps are provided to mount the antenna to the wall using four wall plugs and screws. (Figure 4 & 5)

Antenna Mounting Configurations

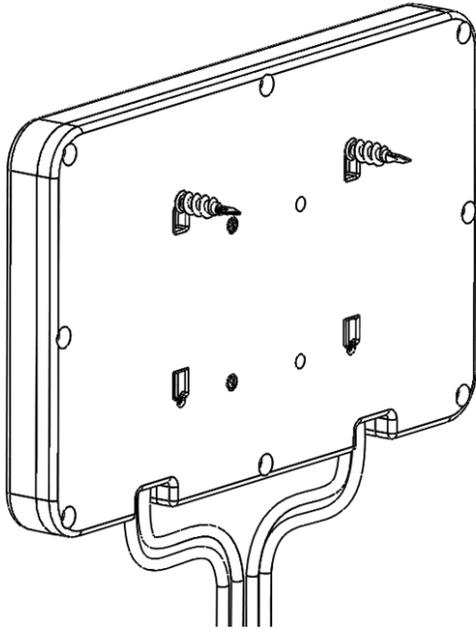


FIGURE 1

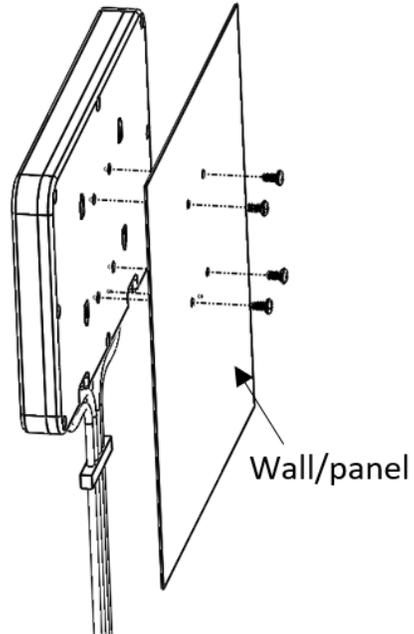


FIGURE 2

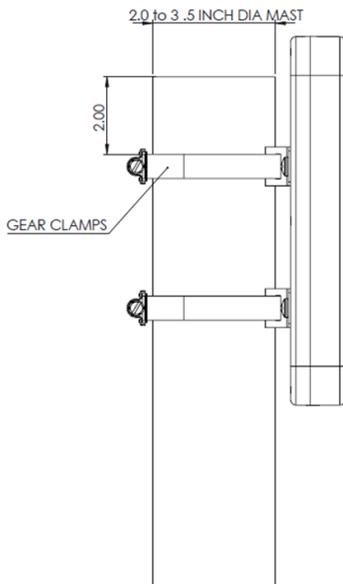


FIGURE 3

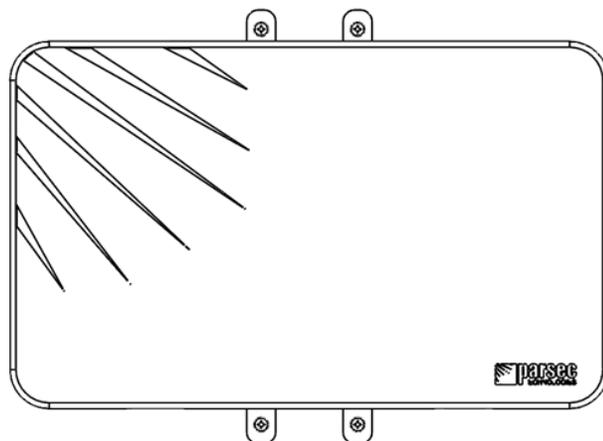


FIGURE 4

Wall Hanging Instructions

Step 1.

Mark the position of the screw holes on the wall to mount the antenna on the wall. (Figure 5)



FIGURE 5

Step 2.

Drill 0.25" holes on the wall and install the anchors on the wall. Insert the screw into the anchor and slowly screw it in until the screw head is 0.25" away from the wall. (Figure 6)

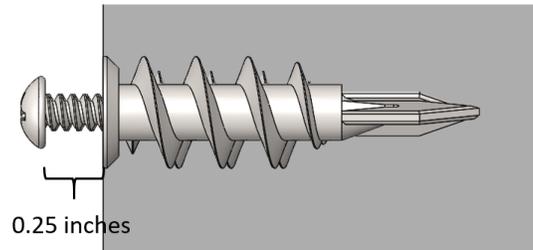


FIGURE 6

Step 3.

Hang the antenna on the screw that are installed on the wall. (Figure 1)

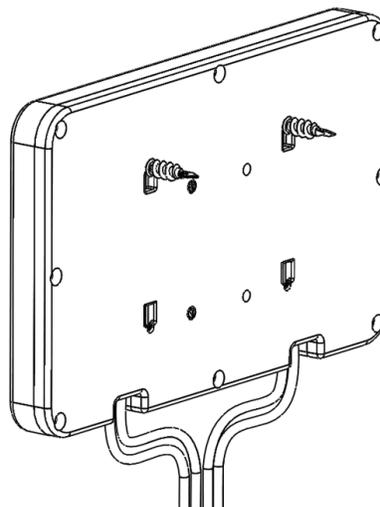


FIGURE 1

Wall Mounting Instructions

Step 1.

Mark the position of the screw holes on the wall to mount the antenna on the wall / panel. (Figure 7)

Step 2.

Drill 0.3" holes in the marked location for mounting the antenna on the wall/panel. (Figure 7)

Step 3.

Align the mounting hole on the antenna to the wall/ panel mounting holes and fasten it to the wall using the four ¼-20 screws provided in the kit. If the wall/panel thickness is 0.35 inches or higher, please use appropriate length screws. (Figure 2)

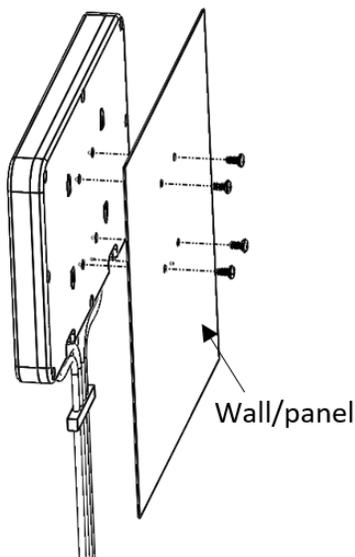


FIGURE 2

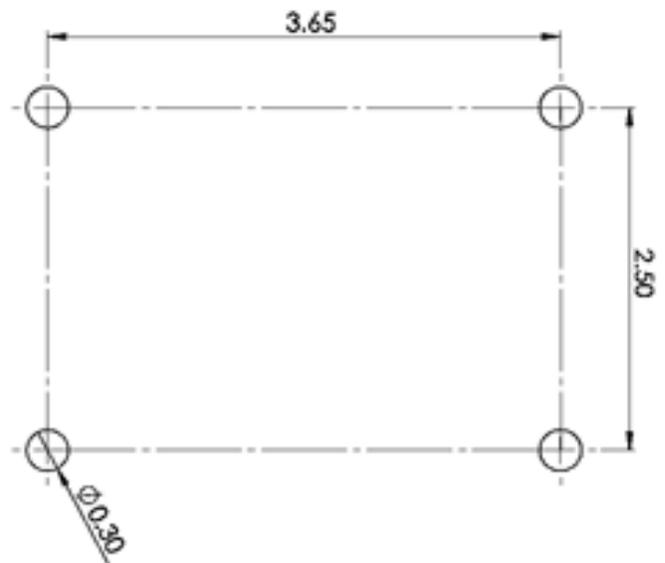


FIGURE 7

Pole Mounting Instructions

Step 1.

Mount the pole mount brackets provided in the kit on the antenna using the four 3/4" screws provided in the kit. (Figure 8)

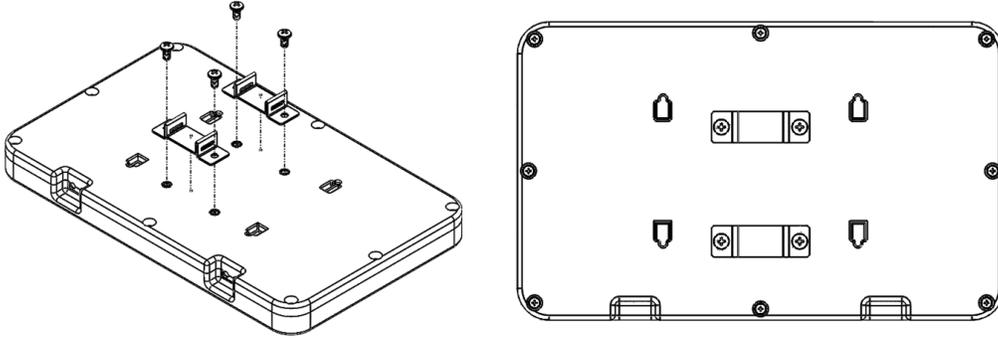


FIGURE 8

Step 2.

Use the gear clamps provided in the kit to mount the antenna to the mast. Leave at least a 2 inch mast from the top clamp. (Figure 3)

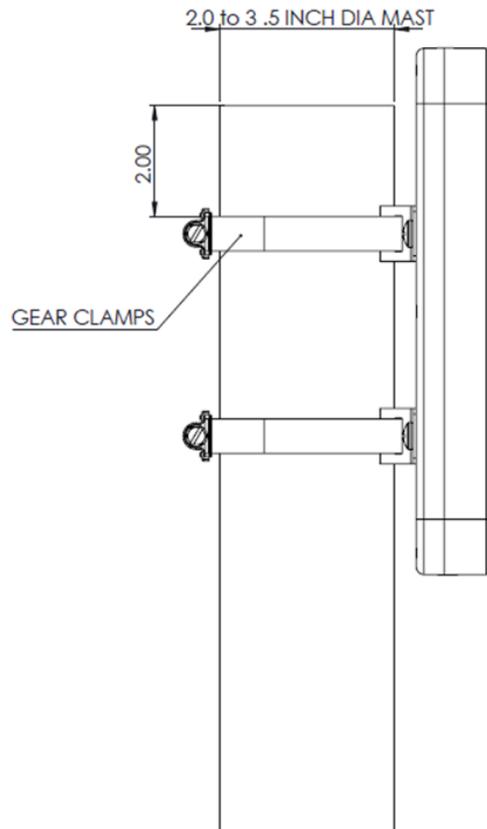


FIGURE 3

Strap Mounting Option

Step 1.

Mount the straps on the antenna using the screws provided in the kit. (Figure 9 & 10)

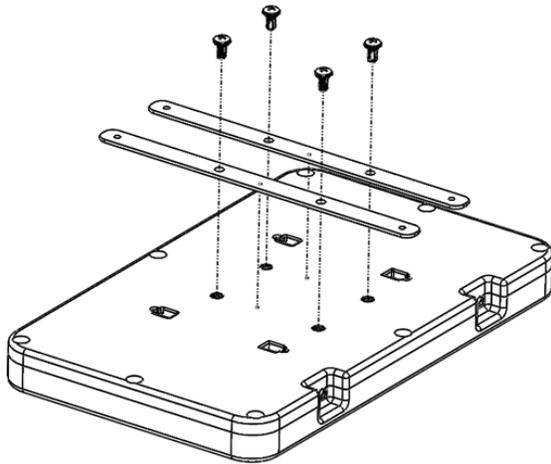


FIGURE 9

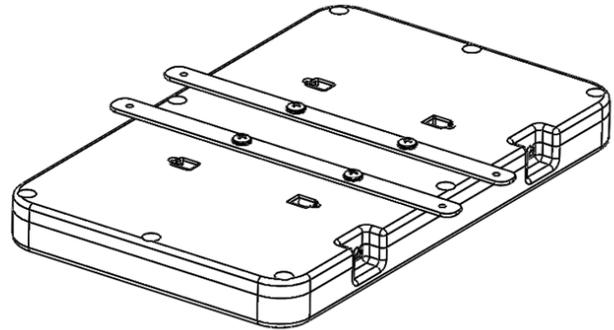


FIGURE 10

Step 2.

After mounting the straps on the antenna, hold the antenna on the wall and mark the mounting hole positions. (Figure 11)

Step 3.

Mount the antenna on the wall or any flat surface using the four wall plugs and screws. (Figure 11)

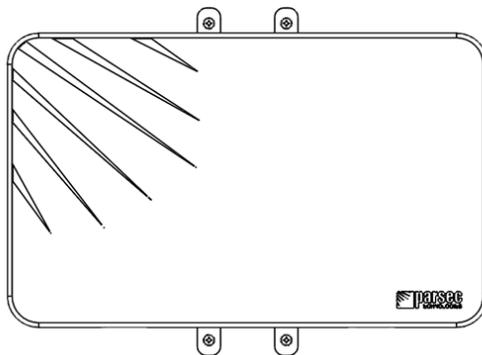


FIGURE 11

Step 4.

Properly route the cables making sure there is a minimum bend radius of 2 inches.

Routing the Cable

Step 1.

Properly route the cables making sure there is no sharp bends. Clamp the cables to the wall at about 6 inches away from the antenna, if the cables are being hung straight from the wall. (Figure 12)

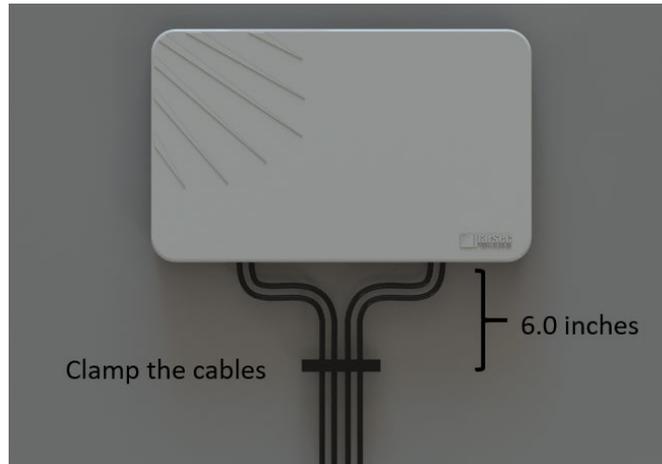


FIGURE 12

Step 2.

Make sure the antenna is mounted in the correct direction and tighten the mounting hardware. Waterproof the RF connectors using electric tape or a heat shrink tube.

Cable Connection Instructions

Note: SMA connectors have a **maximum** torque of 3-5 inch lbs.

Step 1.

Clean the connectors ensuring that there is no dust in the terminals.

Step 2.

Connect the cables from the antenna to the designated connectors on the router. Use the tables below to distinguish your use.

One Router

S. NO	CABLE FROM ANTENNA	CONNECTOR ON ROUTER
1	LTE1	MAIN0
2	LTE2	AUX0
3	LTE3	MAIN1
4	LTE4	AUX1
5	GPS	GPS (if applicable)

Two Routers

Router 1		
S. NO	CABLE FROM ANTENNA	CONNECTOR ON ROUTER
1	LTE1	MAIN
2	LTE3	AUX
3	GPS	GPS (if applicable)
Router 2		
S. NO	CABLE FROM ANTENNA	CONNECTOR ON ROUTER
1	LTE2	MAIN
2	LTE4	AUX

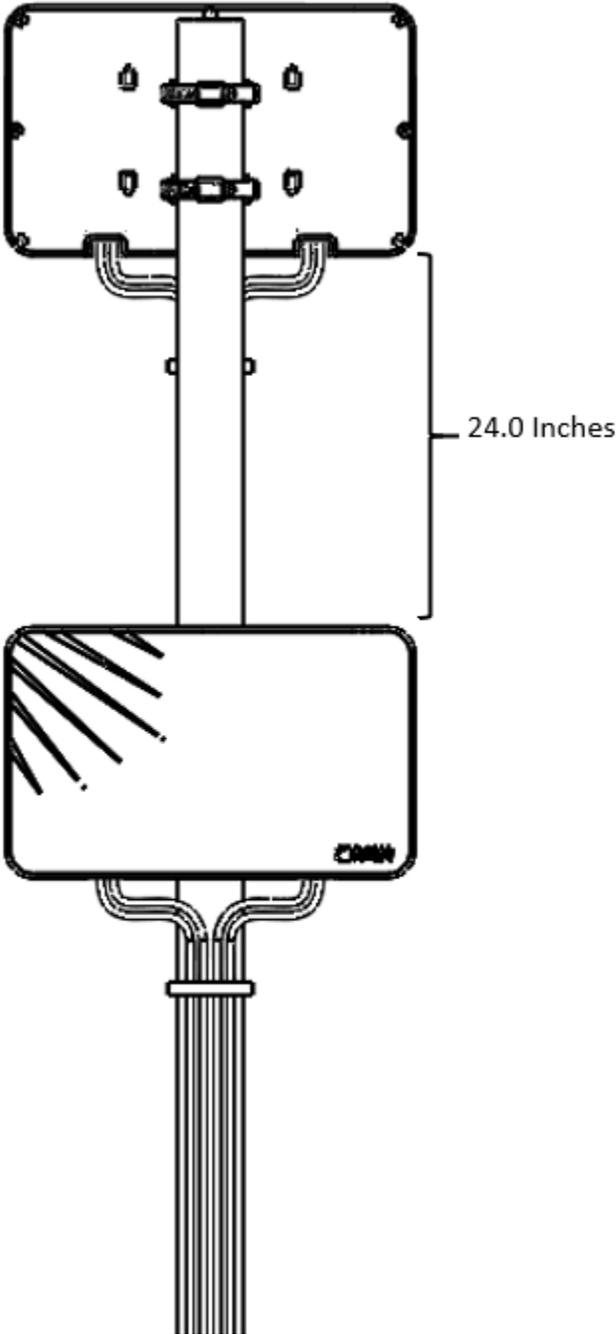
Two Routers and Paddle Antennas

Router 1		
S. NO	CABLE FROM ANTENNA	CONNECTOR ON ROUTER
1	LTE1	MAIN
2	LTE3	AUX
Router 2		
S. NO	CABLE FROM ANTENNA	CONNECTOR ON ROUTER
1	LTE2	MAIN0
2	LTE4	AUX0
3	GPS	GPS (if applicable)
4	Paddle Antenna 1	MAIN1
5	Paddle Antenna 2	AUX1

Installing Multiple Akita Antennas

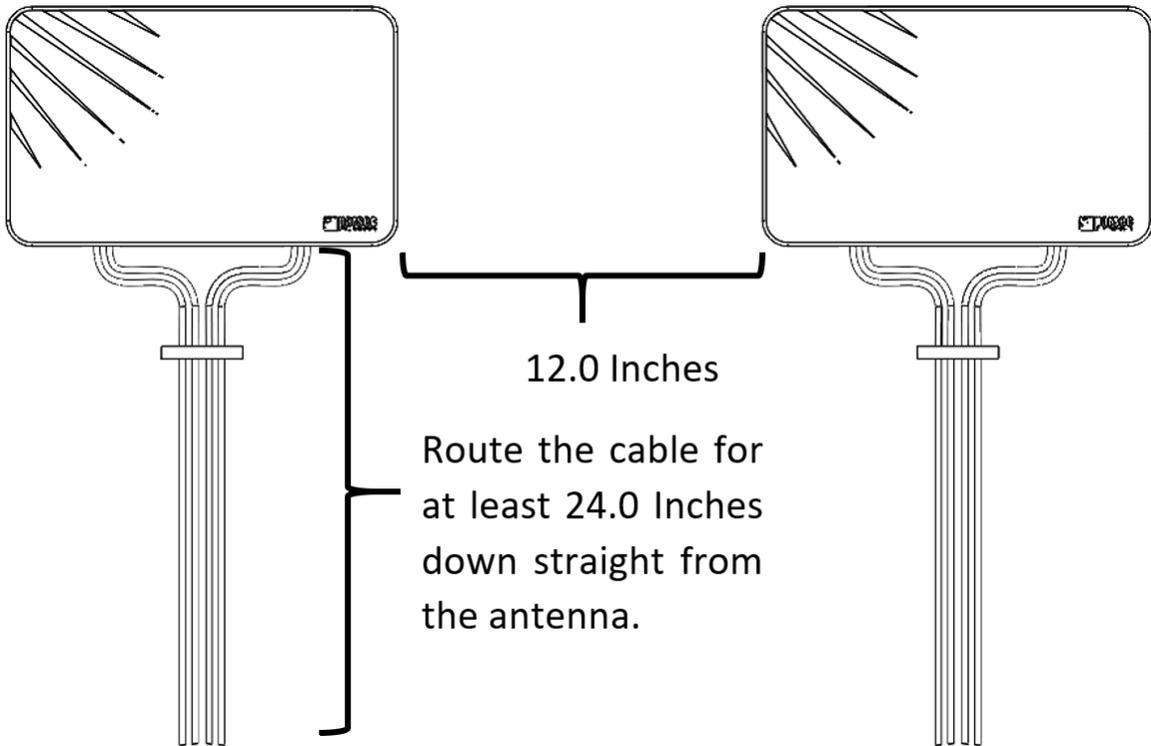
Multiple Antenna Pole Mounting

Make sure the two antennas are mounted at least 24 inches apart on the pole. Properly secure the cables to the mast.



Multiple Antenna Wall Mounting:

The two antennas must be separated by at least 12 inches horizontally or vertically while mounting on a wall and the cables need to go down straight from the antenna for at least 2 feet.



Multiple Antenna Wall Mounting:

Clean the connector such that there is no dust in the terminals. Connect the cables from the antenna to the designated connector on the router as shown in the table below if you are using one router.

S. NO	CABLE FROM ANTENNA	CONNECTOR ON ROUTER
1	LTE1 (Antenna 1)	MAIN0 (Modem 1)
2	LTE2 (Antenna 1)	AUX0 (Modem 1)
3	LTE3 (Antenna 1)	MAIN1 (Modem 1)
4	LTE4 (Antenna 1)	AUX1 (Modem 1)
5	GPS (Antenna 1)	GPS (if applicable)
6	LTE1 (Antenna 2)	MAIN0 (Modem 2)
7	LTE2 (Antenna 2)	AUX0 (Modem 2)
8	LTE3 (Antenna 2)	MAIN1 (Modem 2)
9	LTE4 (Antenna 2)	AUX1 (Modem 2)
10	GPS (Antenna 2)	GPS (if applicable)

Notices:

	<p>CAUTION To comply with FCC 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.</p>
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	<p>DO NOT</p> <ul style="list-style-type: none">• Operate the transmitter when someone is within 20 cm of the antenna.• Install antenna or mast assembly on a windy day
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	<p>WARNING Watch out for overhead power lines. Check the distance to the power lines before starting installation.</p>
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	<p>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.</p>
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