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› Parsec 8-in-1 Australian Shepherd Antenna PTA8AS4L2WBG15B User Manual

Parsec PTA8AS4L2WBG15B

Parsec 8-in-1 Australian Shepherd Antenna User Manual

Model: PTA8AS4L2WBG15B

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Parsec 8-in-1 Australian Shepherd Antenna. This high-performance antenna is designed for mobile and fixed wireless applications, supporting 5G, CAT18 (600 MHz – 6GHz) with 4x4 MIMO LTE, 2x2 MIMO WiFi, Bluetooth, and GPS capabilities.

PRODUCT OVERVIEW

The Parsec Australian Shepherd Series antenna is an IP67-rated external antenna featuring a low-profile design. It is equipped with SMA male connectors and 15 ft. cables for comprehensive connectivity.

Key Features:

- 8-in-1 High-performance antenna: 4 LTE/5G, 2 WiFi, BT, GPS.
- IP67 environmental rating.
- Supports 5G, CAT18, CBRS, and LTE LAA frequencies.
- Low profile silhouette, designed to accommodate modern low profile LED light bars.
- Optimized for use with devices like the Cradlepoint R1900 Series Router.

SETUP AND INSTALLATION

Proper installation is crucial for optimal antenna performance. Ensure all connections are secure and follow the mounting guidelines.

Mounting Requirements:

- **Mounting Hole:** A 1.5-inch diameter hole is required for the thread mount.
- **Bolt Length:** The antenna features a 0.7-inch bolt length for secure attachment.

Step-by-step Installation:

1. Identify a suitable mounting location on your vehicle or fixed structure. The location should provide a clear line of sight for optimal signal reception and accommodate the antenna's dimensions (2.01 inch height x 2.45 inch width x

13.15 inch length).

2. Drill a 1.5-inch diameter hole at the chosen mounting point. Ensure the surface is clean and free of debris.
3. Insert the antenna's threaded bolt through the drilled hole.
4. Secure the antenna from the underside using the provided nut, ensuring a tight fit to maintain the IP67 rating.
5. Route the eight 15 ft. SMA male cables to your networking device (e.g., Cradlepoint R1900 Series Router).
6. Connect each cable to the corresponding port on your device: 4 LTE/5G, 2 WiFi, 1 BT, and 1 GPS. Ensure correct port matching for each function.



Image: Top-down view of the Parsec 8-in-1 Australian Shepherd Antenna, illustrating its low-profile design and the central mounting bolt. This view highlights the compact form factor suitable for various installations.



Image: Rear view of a vehicle demonstrating the Parsec antenna mounted on the roof. The antenna is strategically placed to allow for the installation of an LED light bar, showcasing its low-silhouette design. Red circles indicate the mounting points.

OPERATING INSTRUCTIONS

Once the antenna is securely installed and connected to your compatible networking device, its operation is typically managed through the connected device's interface.

Antenna Functionality:

- **LTE/5G:** Provides high-speed cellular connectivity across various bands (e.g., AT&T, Verizon, T-Mobile bands listed in specifications).
- **WiFi:** Supports 2.4 GHz and 5 GHz WiFi 6 for local wireless networking.
- **Bluetooth (BT):** Enables short-range wireless communication.
- **GPS:** Offers accurate global positioning system data.

Refer to your networking device's user manual for specific instructions on configuring and utilizing the LTE, WiFi, BT, and GPS functions with the connected antenna.

MAINTENANCE

The Parsec Australian Shepherd Antenna is designed for durability and requires minimal maintenance due to its IP67 rating.

- **Cleaning:** Periodically clean the antenna's radome with a soft, damp cloth to remove dirt or debris that may accumulate. Avoid abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the antenna for any physical damage, loose connections, or signs of wear on the cables. Ensure the mounting nut remains tight.
- **Environmental Protection:** The IP67 rating ensures protection against dust ingress and temporary immersion in water. However, avoid prolonged submersion or exposure to extreme physical impact.

TROUBLESHOOTING

If you experience issues with your Parsec antenna, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Poor signal reception (LTE/WiFi/GPS)	Loose cable connections. Antenna obstruction or poor placement. Incorrect cable routing or damage. Device configuration issues.	Check all SMA cable connections at both the antenna and the networking device. Ensure the antenna has a clear line of sight and is not obstructed by metal objects or other equipment. Inspect cables for kinks, cuts, or damage. Replace if necessary. Verify that your networking device is correctly configured for external antenna use and the correct frequency bands.
No GPS signal	GPS cable not connected or damaged. Antenna placement preventing satellite view.	Confirm the GPS cable is securely connected to the GPS port on your device. Relocate the antenna to an area with a clearer view of the sky.
Antenna feels loose after installation	Mounting nut not sufficiently tightened. Mounting surface material issues.	Re-tighten the mounting nut securely. Do not overtighten. Ensure the mounting surface is rigid enough to support the antenna.

SPECIFICATIONS

Feature	Detail
Model Number	PTA8AS4L2WBG15B
Antenna Type	8-in-1 High-performance (4 LTE/5G, 2 WiFi, BT, GPS)
LTE Frequency Range	617–894 MHz, 1710–2700 MHz, 3400–4000 MHz (CBRS), 5150–5925 MHz (LTE LAA)
WiFi Frequency Range	2400–2483.5 MHz, 4900–5900 MHz
Connectors	SMA Male (8 connectors)
Cable Length	15 ft. (per cable)

Feature	Detail
Mounting Type	Thread Mount
Mounting Hole Diameter	1.5 inches
Bolt Length	0.7 inches
Dimensions (H x W x L)	2.01 x 2.45 x 13.15 inches
Weight	1 pound
IP Rating	IP67
Color	Black
Compatible Devices	Designed for Cradlepoint R1900 Series Router

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Parsec website or contact their customer service directly. Keep your purchase receipt and product model number (PTA8AS4L2WBG15B) handy for any inquiries. *Note: This product is covered by standard manufacturer warranties. Specific terms and conditions may apply.*

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question