



The Airedale Terrier PRO Series antennas are high performance, 5G, 600 MHz – 6GHz antennas, available with 4X4 MIMO cellular, 4X4 MIMO Wi-Fi, and optional GPS and Bluetooth. These rugged, IP67 rated antennas are perfect for kiosks, IoT, NEMA enclosures and fixed wireless applications.

The Airedale Terrier antenna with 7 Inch x 4.5 Inch footprints fits perfectly on most of the NEMA enclosures and provide highest performance to 4G or 5G cellular modems that require 4 cellular elements for 4x4 MIMO. This high-performance antenna allows you to get good signal in difficult locations as well.

Patent Pending



**Configurations 4:1 | 5:1 | 6:1 | 7:1 | 8:1 | 9:1**

IoT | Kiosks | NEMA Enclosures | Fixed Wireless | Remote Video Monitoring



### ***Small Footprint***

7.01 Inch x 4.5 Inch x 3.02 Inch, Fits on  
most NEMA Enclosures

### ***High Data Speeds***

Ideal for IoT and Kiosks

### ***Durable***

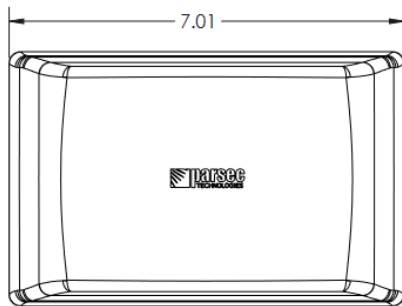
IP67 Rated & Rugged

- 4X4 MIMO CELLULAR
- UP TO 4X4 MIMO WI-FI
- OMNI-DIRECTIONAL
- 600 MHz – 6 GHz
- OPTIONAL GPS/ BLUETOOTH
- 7.01 In x 4.5 In x 3.02 In
- WI-FI 6 COMPATIBLE

# Specifications

| <i>Frequencies</i> |                                                                                                                               |                       |                                      |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------------------------|
| 4G/5G Cellular     | 617 – 698 MHz<br>698 – 894 MHz<br>1710 – 2200 MHz<br>2200 – 2700 MHz<br>3300 – 4000 MHz<br>5150 – 5925 MHz                    | Wi-Fi                 | 2400–2483.5 MHz<br>4900–5900 MHz     |
| <i>4G/5G Bands</i> |                                                                                                                               |                       |                                      |
| North America      | B2, B4, B5, B12, B13, B14, B17, B25, B26, B29, B30, B41, B46, B48, B66, B71<br>n2, n5, n12, n25, n26, n41, n48, n66, n71, n77 |                       |                                      |
| EMEA               | B1, B3, B7, B20, B28, B42, B43, B46<br>n1, n3, n28, n77, n78                                                                  |                       |                                      |
| <i>Mechanical</i>  |                                                                                                                               | <i>Environmental</i>  |                                      |
| Dimension          | 7.01 In x 4.5 In x 3.02 In                                                                                                    | Operating Temperature | -30 °C to 85°C OR<br>-22 °F to 180°F |
| Mounting           | Single 1.0 inch                                                                                                               | Ingress Protection    | IP67                                 |

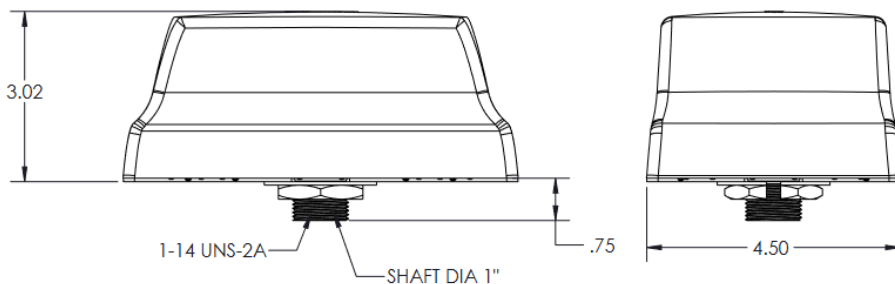
# Dimensions



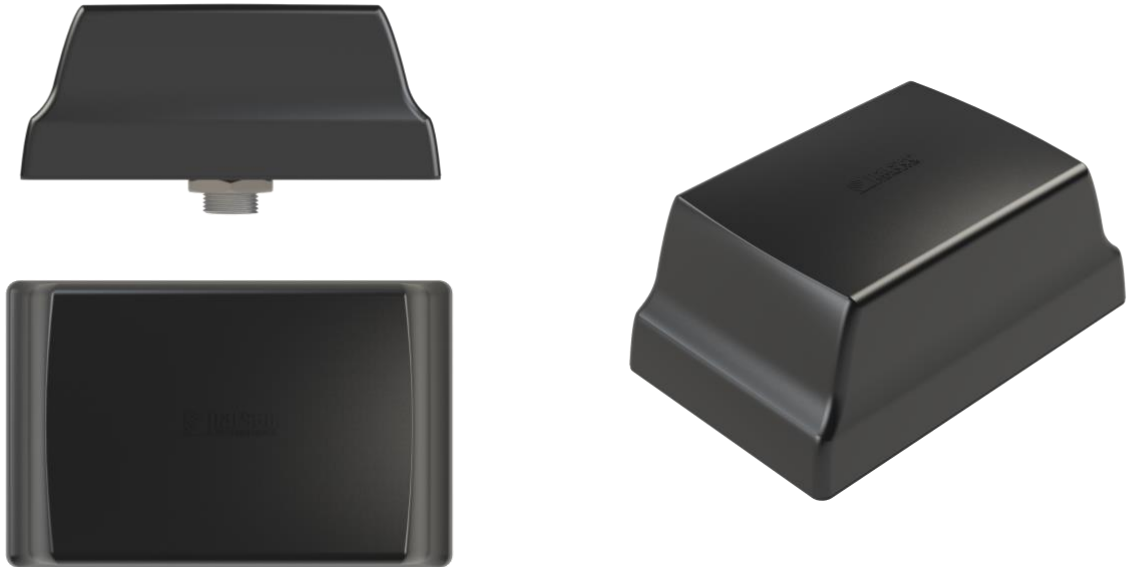
Hardware Accessories Included

PTA0316-316

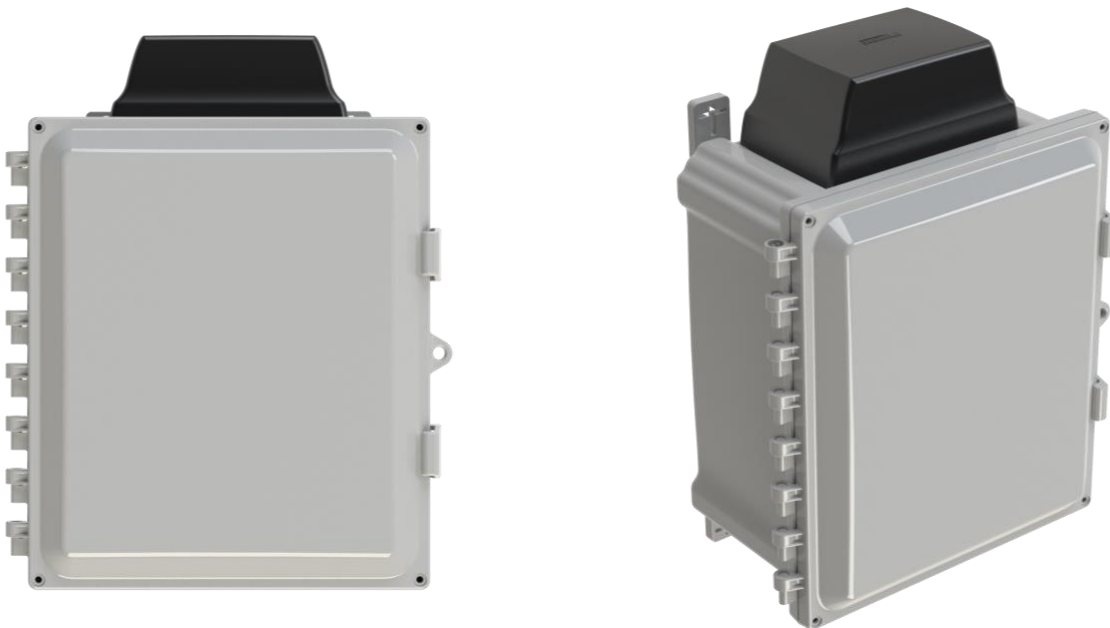
PTA0318-316



## *Product Images*



## *Product Renderings*



## Electrical Specifications

| <i>ID &amp; Unit</i>           | <i>Port</i>    | <i>Parameters</i> | <i>Typ.</i> |
|--------------------------------|----------------|-------------------|-------------|
| <b>Radiated Efficiency (%)</b> | CELL 1 thru 4  | 617 – 698 MHz     | 60          |
|                                | CELL 1 thru 4  | 698 – 894 MHz     | 65          |
|                                | CELL 1 thru 4  | 1710 – 2200 MHz   | 60          |
|                                | CELL 1 thru 4  | 2200 – 2700 MHz   | 75          |
|                                | CELL 1 thru 4  | 3300 – 4000 MHz   | 80          |
|                                | CELL 1 thru 4  | 5150 – 5925MHz    | 80          |
|                                | Wi-Fi 1 thru 4 | 2400-2483.5 MHz   | 75          |
|                                | Wi-Fi 1 thru 4 | 4900-5900 MHz     | 80          |
| <b>Peak Gain (dBi)</b>         | CELL 1 thru 4  | 617 – 698 MHz     | 3           |
|                                | CELL 1 thru 4  | 698 – 798 MHz     | 4           |
|                                | CELL 1 thru 4  | 798 – 894 MHz     | 5           |
|                                | CELL 1 thru 4  | 1710 – 2200 MHz   | 4           |
|                                | CELL 1 thru 4  | 2200 – 2700 MHz   | 6           |
|                                | CELL 1 thru 4  | 3300 – 4000 MHz   | 6           |
|                                | CELL 1 thru 4  | 5150 – 5925 MHz   | 7           |
|                                | Wi-Fi 1 thru 4 | 2400-2483.5 MHz   | 7           |
|                                | Wi-Fi 1 thru 4 | 4900-5900 MHz     | 9           |
| <b>Return Loss 50Ω (dB)</b>    | CELL-1,2,3,4   | 617 – 698 MHz     | 5           |
|                                | CELL-1,2,3,4   | 698 – 798 MHz     | 11          |
|                                | CELL-1,2,3,4   | 798 – 894 MHz     | 8           |
|                                | CELL-1,2,3,4   | 1710 – 1800 MHz   | 10          |
|                                | CELL-1,2,3,4   | 1800 – 2496 MHz   | 8           |
|                                | CELL-1,2,3,4   | 2496 – 2700 MHz   | 10          |
|                                | CELL-1,2,3,4   | 3300 – 4000 MHz   | 12          |
|                                | CELL-1,2,3,4   | 5150 – 5925 MHz   | 9           |
|                                | WiFi-1,2,3,4   | 2400 – 2483.5 MHz | 12          |
|                                | WiFi-1,2,3,4   | 4900 – 5150 MHz   | 8           |
|                                | WiFi-1,2,3,4   | 5150 – 5900 MHz   | 11          |
|                                |                |                   |             |
| <b>Isolation (dB)</b>          | CELL           | 617 – 859 MHz     | 9           |
|                                | CELL           | 859 – 894 MHz     | 11          |
|                                | CELL           | 1710 – 1930 MHz   | 11          |
|                                | CELL           | 1930 – 2700 MHz   | 13          |
|                                | CELL           | 3300 – 4000 MHz   | 15          |
|                                | CELL           | 5150 – 5925 MHz   | 23          |
|                                | WiFi           | 2400 – 2483.5 MHz | 9           |
|                                | WiFi           | 4900 – 5900 MHz   | 15          |
| <b>Polarization</b>            | CELL, Wi-Fi    |                   | Linear      |
| <b>Max Input Power (Watts)</b> | CELL, Wi-Fi    |                   | 10          |
| <b>RF Connectors</b>           | CELL           |                   | SMA(M)      |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |  |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--|------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Wi-Fi         |  | RPSMA(M)         |
| RF Cable Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | CELL<br>Wi-Fi |  | LSR200<br>LSR100 |
| <ul style="list-style-type: none"> <li>Electrical Specifications based on antenna with a 2 ft x 2 ft external ground plane.</li> <li>Isolation, peak gain, and return loss does not include cable loss.</li> <li>SMA connectors have a max torque of 3–5–inch lbs.</li> <li>NF connectors have a max torque of 6.2–9.7–inch lbs.</li> <li>The maximum cable length for the Wi-Fi configurations is 6 FT.</li> <li>Parsec is currently phasing out inventory with LTE on our cellular cables (now labeled CELL). For cables labeled LTE, please refer port "CELL" in the data sheets and installation instructions.</li> </ul> |               |  |                  |

## GNSS Electrical Specifications

| ID & Unit                   | Port | Parameters    | Typ.     |
|-----------------------------|------|---------------|----------|
| Antenna + Preamp Gain (dBi) | GPS  | 1570–1581 MHz | 33       |
| Polarization                | GPS  |               | RHCP     |
| Filter Rejection (dB)       | GPS  | 1625 MHz      | 12       |
| GNSS Preamp Voltage (mA)    | GPS  |               | 2.2 to 5 |
| GNSS Preamp Current (mA)    | GPS  |               | 5 to 15  |
| RF Connector                | GPS  |               | SMA(M)   |
| RF Cable Type               | GPS  |               | LSR100   |

## Part Number Key

Part number example of an 8:1 Airedale Terrier antenna, black: PRO8AT4L2WBG06B

| Description                                                                                                   | Abbreviation          | Part Number     |
|---------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|
| All PTA Series                                                                                                | PRO                   | PRO             |
| Number of Antennas in Housing/Configuration                                                                   | 8:1                   | PRO8            |
| Antenna Abbreviation for Airedale Terrier                                                                     | AT                    | PRO8AT          |
| Number of CELL Elements                                                                                       | #L                    | PRO8AT4L        |
| Number of Wi-Fi Elements                                                                                      | #W                    | PRO8AT4L2W      |
| Number of Bluetooth Elements (usually only 1 Bluetooth per antenna, therefore we simply list B and no number) | B                     | PRO 8AT4L2WB    |
| Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)             | G                     | PRO8AT4L2WBG    |
| Cable Length Measured in Feet: 01=1', 15=15'                                                                  | 01, 03, 06, 15, etc., | PRO8AT4L2WBG06  |
| Radome Color - B for Black                                                                                    | B                     | PRO8AT4L2WBG06B |
| If SMA Connector, Simply Leave Blank                                                                          |                       | PRO8AT4L2WBG06B |
| Custom connectors and cable kits are available. Please contact us for more information at sales@parsec-t.com. |                       |                 |

## Ordering

### Standard Antennas

| <i>Configurations</i> | <i>Part Number</i> | <i>Description</i>                                    |
|-----------------------|--------------------|-------------------------------------------------------|
| <b>4:1</b>            | PRO4AT4L01B        | 4 Cellular, 1 ft Cable, Black                         |
|                       | PRO4AT4L03B        | 4 Cellular, 3 ft Cable Black                          |
|                       | PRO4AT4L06B        | 4 Cellular, 6 ft Cable, Black                         |
|                       | PRO4AT4L15B        | 4 Cellular, 15 ft Cable Black                         |
| <b>5:1</b>            | PRO5AT4LG01B       | 4 Cellular, GPS, 1 ft Cable, Black                    |
|                       | PRO5AT4LG03B       | 4 Cellular, GPS, 3 ft Cable Black                     |
|                       | PRO5AT4LG06B       | 4 Cellular, GPS, 6 ft Cable, Black                    |
|                       | PRO5AT4LG15B       | 4 Cellular, GPS, 15 ft Cable Black                    |
| <b>7:1</b>            | PRO7AT4L2WG01B     | 4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black           |
|                       | PRO7AT4L2WG03B     | 4 Cellular, 2 Wi-Fi, GPS, 3 ft Cable, Black           |
|                       | PRO7AT4L2WG06B     | 4 Cellular, 2 Wi-Fi, GPS, 6 ft Cable, Black           |
| <b>8:1</b>            | PRO8AT4L2WBG01B    | 4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 1 ft Cable Black |
|                       | PRO8AT4L2WBG03B    | 4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 3 ft Cable Black |
|                       | PRO8AT4L2WBG06B    | 4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 6 ft Cable Black |
| <b>9:1</b>            | PRO9AT4L4WG01B     | 4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, Black           |
|                       | PRO9AT4L4WG03B     | 4 Cellular, 4 Wi-Fi, GPS, 3 ft Cable, Black           |
|                       | PRO9AT4L4WG06B     | 4 Cellular, 4 Wi-Fi, GPS, 6 ft Cable, Black           |

### Additional Hardware Accessories

| <i>Accessory</i>                                                 | <i>Part Number</i> |
|------------------------------------------------------------------|--------------------|
| Magnetic Mount                                                   | PTA0330            |
| Replacement Rooftop Gasket                                       | PTA0955            |
| Hardware Kit for 1" Shaft - Nut/Washer                           | PTA0760            |
| 1" Star Washer                                                   | PTA0251            |
| Ground plane with adhesive back, 20in x 20in, can be cut to size | PTA0587            |
| Surge Arrestor - SMA(F) to SMA(F)                                | PTA0476            |
| Surge Arrestor - N(F) to N(M)                                    | PTA0736            |
| Pole Mount Bracket Assembly, 1" Hole                             | PTA0149            |
| SMA Wrench, Key Chain                                            | PTA0194            |
| Service: Cable Sleeving (priced per ft)                          | Cable Sleeving     |



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