



The Australian Shepherd HPUE Optimized Pro Series antennas are high performance, 4G/5G, 600 MHz – 6 GHz antennas, available with 2X2 MIMO cellular, optional 2X2 MIMO Wi-Fi, band 14 and optional GPS. The HPUE version of the Australian Shepherd further isolates the band 14 FirstNet element for maximum throughput in an omni-directional pattern. These rugged, IP67 rated antennas are perfect for mobile and fixed wireless applications.

The Australian Shepherd is the perfect companion to low profile LED light bars found on modern police vehicles. Experience our low profile, low silhouette design while still producing the high gain you expect from a Parsec antenna.

Patent Pending



## Configurations 4:1 | 6:1

Emergency Communications | Transportation/Fleet | Mobile Broadband

### *Low Profile*

Fits Perfectly Below Low LED Light Bars

### *High Power User Equipment*

Maximum Range, Coverage, & Capacity

### *Durable*

IP67 Rated & Power Wash Safe

- 2X2 MIMO CELLULAR
- OPTIONAL 2X2 MIMO Wi-Fi
- BAND 14
- OPTIONAL GPS
- OMNI – DIRECTIONAL
- 600 MHz – 6 GHz
- 2.06 in x 2.45 in x 13.5 in

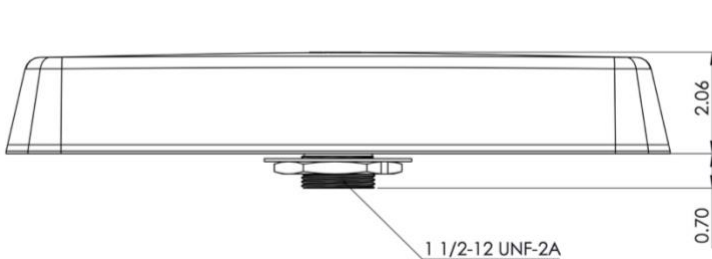
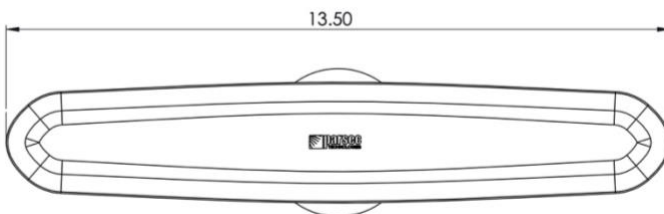
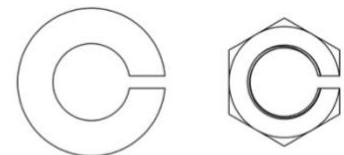
# Specifications

<i><b>Frequencies</b></i>			
4G/5G Cellular	617-894 MHz 1710-2700 MHz 3400-4000 MHz 5150-5925 MHz	Wi-Fi	2400-2483.5 MHz 4900-5900 MHz
<i><b>4G/5G Bands</b></i>			
North America	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B41, B46, B48, B66, B71 n2, n5, n12, n25, n26, n41, n48, n66, n70, n71, n77		
EMEA	B1, B3, B7, B20, B28, B42, B43, B46 n1, n3, n28, n77, n78		
<i><b>Mechanical</b></i>		<i><b>Environmental</b></i>	
Dimension	2.06 inch X 2.45 inch X 13.5 inch	Operating Temperature	-30 °C to 85°C OR -22 °F to 180°F
Mounting	Single 1.5 inch	Ingress Protection	IP67

# Dimensions

Hardware Accessories Included

PTA0761



## 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, 2	617-663 MHz	40
	CELL 1, 2	663-798 MHz	60
	CELL 1, 2	798-894 MHz	50
	CELL 1, 2	1710-2700 MHz	70
	CELL 1, 2	3400-4000 MHz	65
	CELL 1, 2	5150-5925 MHz	45
	B14	758-861 MHz	80
	GPS	1150-1300 MHz	80
	GPS	1561-1602 MHz	80
	Wi-Fi 1, 2	2400-2483.5 MHz	60
	Wi-Fi 1, 2	4900-5900 MHz	60
<b>Peak Gain (dBi)</b>	CELL 1, 2	617-663 MHz	3.5
	CELL 1, 2	663-798 MHz	5.5
	CELL 1, 2	798-894 MHz	4
	CELL 1, 2	1710-2700 MHz	6.5
	CELL 1, 2	3400-4000 MHz	7
	CELL 1, 2	5150-5925 MHz	6
	B14	758-861 MHz	5.5
	Wi-Fi 1, 2	2400-2483.5 MHz	10
	Wi-Fi 1, 2	4900-5900 MHz	10
<b>Return Loss 50Ω (dB)</b>	CELL 1, 2	617-663 MHz	6
	CELL 1, 2	663-798 MHz	10
	CELL 1, 2	798-894 MHz	6
	CELL 1, 2	1710-2700 MHz	7
	CELL 1, 2	3400-4000 MHz	10
	CELL 1, 2	5150-5925 MHz	6
	B14	758-861 MHz	11
	GPS	1150-1300 MHz	10
	GPS	1561-1602 MHz	8
	Wi-Fi 1, 2	2400-2483.5 MHz	8
	Wi-Fi 1, 2	4900-5900 MHz	10
<b>Isolation (dB)</b>	CELL	617-663 MHz	6
	CELL	663-798 MHz	6
	CELL	798-894 MHz	7
	CELL	1710-2700 MHz	13
	CELL	3400-4000 MHz	20
	CELL	5150-5925 MHz	23
	Wi-Fi	2400-2483.5 MHz	25
	Wi-Fi	4900-5900 MHz	30

<b>Polarization</b>	CELL, B14 GPS		Linear RHCP
<b>Max Input Power (Watts)</b>	CELL, Wi-Fi, B14		10
<b>GNSS Preamp Gain (dB)</b>	GPS		28
<b>GNSS Preamp Voltage (V)</b>	GPS		2.2 to 5.0
<b>RF Connectors</b>	CELL, B14, GPS Wi-Fi		SMA(M) RP-SMA (M)
<b>RF Cable Type</b>	CELL, B14, Wi-Fi GPS		LSR200 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, return loss, and peak gain 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>• 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>			

## Part Number Key

Part number example of a 6:1 Australian Shepherd antenna, black: PTA6AS2L142WG15B

<b>Description</b>	<b>Abbreviation</b>	<b>Part Number</b>
All PTA Series	PTA	PTA
Number of Antennas in Housing/Configuration	6:1	PTA6
Antenna Abbreviation for Australian Shepherd	AS	PTA6AS
Number of CELL Elements	#L	PTA6AS2L
Band 14 Specifically for HPUE Optimized Products	14	PTA6AS2L14
Number of Wi-Fi Elements	#W	PTA6AS2L142W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PTA6AS2L142WG
Cable Length Measured in Feet: 01=1', 15=15'	01, 15, etc.,	PTA6AS2L142WG15
Radome Color - B for Black	B	PTA6AS2L142WG15B
If SMA Connector, Simply Leave Blank		PTA6AS2L142WG15B
<b>Custom connectors and cable kits are available. Please contact us for more information at <a href="mailto:sales@parsec-t.com">sales@parsec-t.com</a>.</b>		

## Ordering Standard Antennas

<b>Configurations</b>	<b>Part Number</b>	<b>Description</b>
<b>4:1</b>	PTA4AS2L14G15B	2 Cellular, Band 14, GPS, 15 ft Cable, Black
	PTA4AS2L14G15W	2 Cellular, Band 14, GPS, 15 ft Cable, White
<b>6:1</b>	PTA6AS2L142WG15B	2 Cellular, Band 14, 2 Wi-Fi, GPS, 15 ft Cable, Black
	PTA6AS2L142WG15W	2 Cellular, Band 14, 2 Wi-Fi, GPS, 15 ft Cable, White

## *Additional Hardware Accessories*

<i>Accessory</i>	<i>Part Number</i>
Rectangle Plate Pole Mount Bracket, 1.5" Hole	PTA0638
Customizable Pole Mount Bracket, 1.5" Hole	PTA0640
Roof Mount Bracket Assembly with L Bracket, 1.5" Hole	PTA0641
Magnetic Boot Mount – Black	PTA0329
Replacement Rooftop Gasket	PTA0592
Rooftop Gasket – Curved Roofs	PTA0766
Hardware Kit for 1.5" Shaft – Nut/Washer	PTA0761
1.5" Star Washer	PTA0257
Ground Plane with Adhesive Back, 20 in x 20 in, Can Be Cut to Size	PTA0587
Lightning Arrestor – SMA(F) to SMA(F)	PTA0476
Lightning Arrestor – N(F) to N(M)	PTA0736
SMA Wrench, Key Chain	PTA0194
Service: Cable Sleeving (Priced Per Ft)	Cable Sleeving



**Parsec Antennas**

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