



The Australian Shepherd PTA 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 mobile and fixed wireless applications.

The Australian Shepherd is the perfect companion to low profile LED light bars found on modern police vehicles. A sleek housing that is thin enough to fit between the ridges of vehicle rooftops and aerodynamic to prevent noise around and inside the vehicle. Experience our low profile, low silhouette design while still producing the high gain that you would expect from a Parsec antenna.

Patent Pending



1st
to **5G**

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

Emergency Communications | Transportation/Fleet | Mobile Broadband



Low Profile

No Obstructing of Low LED Light Bars

High Data Speeds

Ideal for Remote Video Monitoring

Durable

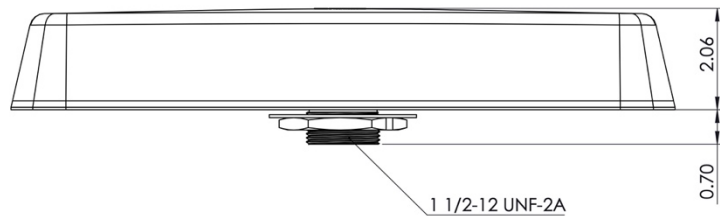
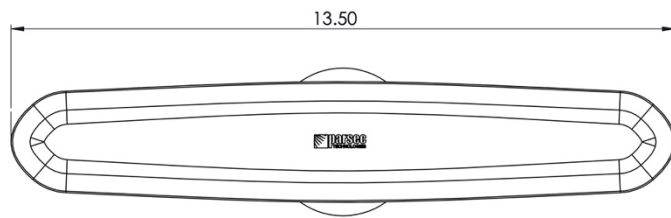
IP67 Rated & Power Wash Safe

- 4X4 MIMO CELLULAR
- UP TO 4X4 MIMO WI-FI
- OMNI-DIRECTIONAL
- 600 MHz – 6 GHz
- OPTIONAL GPS/ BLUETOOTH
- 2.06 in x 2.45 in x 13.50 in
- WI-FI 6 COMPATIBLE

Specifications

Frequencies			
4G/5G Cellular	617-894 MHz 1710-2700 MHz 3400-4000 MHz 5150-5925 MHz	Wi-Fi	2400-2483.5 MHz 4900-5900 MHz
4G/5G Bands			
North America	B2, B4, B5, B12, B13, B14, B17, B25, B26, B29, B30, B41, B46, B48, B66, B71 n2, n5, n12, n25, n26, n41, n48, n66, n71, n77		
EMEA	B1, B3, B7, B20, B28, B42, B43, B46 n1, n3, n28, n77, n78		
Mechanical		Environmental	
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

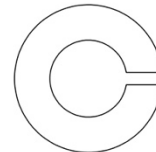
Dimensions



Hardware Accessories Included

PTA0317-316

PTA0319-316



Product Images



Product Renderings



Electrical Specifications

ID & Unit	Port	Parameters	Typ.
Radiated Efficiency (%)	CELL 1 thru 4	617-663 MHz	40
	CELL 1 thru 4	663-798 MHz	60
	CELL 1 thru 4	798-894 MHz	50
	CELL 1 thru 4	1710-2700 MHz	70
	CELL 1 thru 4	3400-4000 MHz	65
	CELL 1 thru 4	5150-5925 MHz	45
	GPS	1575.42 MHz	80
	Wi-Fi 1 thru 4	2400-2483.5 MHz	60
	Wi-Fi 1 thru 4	4900-5900 MHz	60
Peak Gain (dBi)	CELL 1 thru 4	617-663 MHz	3.5
	CELL 1 thru 4	663-798 MHz	5.5
	CELL 1 thru 4	798-894 MHz	4
	CELL 1 thru 4	1710-2700 MHz	6.5
	CELL 1 thru 4	3400-4000 MHz	7
	CELL 1 thru 4	5150-5925 MHz	6
	Wi-Fi 1 thru 4	2400-2483.5 MHz	10
	Wi-Fi 1 thru 4	4900-5900 MHz	10
	Return Loss 50Ω (dB)	CELL 1 thru 4	617-663 MHz
CELL 1 thru 4		663-798 MHz	10
CELL 1 thru 4		798-894 MHz	6
CELL 1 thru 4		1710-2700 MHz	7
CELL 1 thru 4		3400-4000 MHz	10
CELL 1 thru 4		5150-5925 MHz	6
GPS		1575.42 MHz	12
Wi-Fi 1 thru 4		2400-2483.5 MHz	8
Wi-Fi 1 thru 4		4900-5900 MHz	10
Isolation (dB)	CELL 1 thru 4	617-663 MHz	6
	CELL 1 thru 4	663-798 MHz	6
	CELL 1 thru 4	798-894 MHz	7
	CELL 1 thru 4	1710-2700 MHz	10
	CELL 1 thru 4	3400-4000 MHz	18
	CELL 1 thru 4	5150-5925 MHz	23
	Wi-Fi 1 thru 4	2400-2483.5 MHz	11
	Wi-Fi 1 thru 4	4900-5900 MHz	17
	Polarization	CELL, Wi-Fi GPS	
Max Input Power (Watts)	CELL, Wi-Fi		10
GNSS Preamp Gain (dB)	GPS		28
GNSS Preamp Voltage (V)	GPS		2.2 to 5.0

RF Connectors	CELL, GPS Wi-Fi		SMA(M) RPSMA(M)
RF Cable Type	CELL, Wi-Fi GPS		LSR200 LSR100
<ul style="list-style-type: none"> • Electrical Specifications based on antenna with a 2 ft x 2 ft external ground plane. • Isolation, peak gain, and return loss does not include cable loss. • SMA connectors have a max torque of 3-5 inch lbs. • NF connectors have a max torque of 6.2-9.7 inch lbs. • 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. 			

Part Number Key

Part number example of a 8:1 Australian Shepherd antenna, black: PTA8AS4L2WBG15B

Description	Abbreviation	Part Number
All PTA Series	PTA	PTA
Number of Antennas in Housing/Configuration	8:1	PTA8
Antenna Abbreviation for Australian Shepherd	AS	PTA8AS
Number of CELL Elements	#L	PTA8AS4L
Number of Wi-Fi Elements	#W	PTA8AS4L2W
Number of Bluetooth Elements (usually only 1 Bluetooth per antenna, therefore we simply list B and no number)	B	PTA8AS4L2WB
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PTA8AS4L2WBG
Cable Length Measured in Feet: 01=1', 15=15'	01, 15, etc.,	PTA8AS4L2WBG15
Radome Color - B for Black	B	PTA8AS4L2WBG15B
If SMA Connector, Simply Leave Blank		PTA8AS4L2WBG15B
Custom connectors and cable kits are available. Please contact us for more information at sales@parsec-t.com.		

Ordering

Standard Antennas

Configurations	Part Number	Description
4:1	PTA4AS4L15B	4 Cellular, 15 ft Cable, Black
7:1	PTA7AS4L2WBG15B	4 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, Black
8:1	PTA8AS4L2WBG15B	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 15 ft Cable Black
9:1	PTA9AS4L4WBG15B	4 Cellular, 4 Wi-Fi, GPS, 15 ft Cable, Black

Non-Standard Antennas

Configurations	Part Number	Description
4:1	PTA4AS4L15B	4 Cellular, 15 ft Cable, Black
	PTA4AS4L01W	4 Cellular, 1 ft Cable, White
	PTA4AS4L03B	4 Cellular, 3 ft Cable Black
	PTA4AS4L03W	4 Cellular, 3 ft Cable, White
	PTA4AS4L06B	4 Cellular, 6 ft Cable, Black
	PTA4AS4L06W	4 Cellular, 6 ft Cable, White
	PTA4AS4L15W	4 Cellular, 15 ft Cable, White
5:1	PTA5AS4LG01B	4 Cellular, GPS, 1 ft Cable, Black
	PTA5AS4LG01W	4 Cellular, GPS, 1 ft Cable, White
	PTA5AS4LG03B	4 Cellular, GPS, 3 ft Cable, Black
	PTA5AS4LG03W	4 Cellular, GPS, 3 ft Cable, White
	PTA5AS4LGO6B	4 Cellular, GPS, 6 ft Cable, Black
	PTA5AS4LG06W	4 Cellular, GPS, 6 ft Cable, White
	PTA5AS4LG15B	4 Cellular, GPS, 15 ft Cable, Black
	PTA5AS4LG15W	4 Cellular, GPS, 15 ft Cable, White
7:1	PTA7AS4L2WG01B	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black
	PTA7AS4L2WG01W	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White
	PTA7AS4L2WG03B	4 Cellular, 2 Wi-Fi, GPS, 3 ft Cable, Black
	PTA7AS4L2WG03W	4 Cellular, 2 Wi-Fi, GPS, 3 ft Cable, White
	PTA7AS4L2WG06B	4 Cellular, 2 Wi-Fi, GPS, 6 ft Cable, Black
	PTA7AS4L2WG06W	4 Cellular, 2 Wi-Fi, GPS, 6 ft Cable, White
	PTA7AS4L2WG15W	4 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, White
8:1	PTA8AS4L2WBG01B	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 1 ft Cable, Black
	PTA8AS4L2WBG01W	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 1 ft Cable, White
	PTA8AS4L2WBG03B	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 3 ft Cable, Black
	PTA8AS4L2WBG03W	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 3 ft Cable, White
	PTA8AS4L2WBG06B	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 6 ft Cable, Black
	PTA8AS4L2WBG06W	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 6 ft Cable, White
	PTA8AS4L2WBG15W	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 15 ft Cable, White
9:1	PTA9AS4L4WG01B	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, Black
	PTA9AS4L4WG01W	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, White
	PTA9AS4L4WG03B	4 Cellular, 4 Wi-Fi, GPS, 3 ft Cable, Black
	PTA9AS4L4WG03W	4 Cellular, 4 Wi-Fi, GPS, 3 ft Cable, White
	PTA9AS4L4WG06B	4 Cellular, 4 Wi-Fi, GPS, 6 ft Cable, Black
	PTA9AS4L4WG06W	4 Cellular, 4 Wi-Fi, GPS, 6 ft Cable, White
	PTA9AS4L4WG015W	4 Cellular, 4 Wi-Fi, GPS, 15 ft Cable, White

Additional Hardware Accessories

Accessory	Part Number
Pole Mount Bracket	PTA0638
Customizable Pole Mount Bracket	PTA0640
Roof Mount Bracket Assembly with L Bracket	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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