



MobileMustHave
MOBILE LIFESTYLE SOLUTIONS

Ideal for

- First Responders
- Transportation/Fleet
- Remote Video Monitoring
- Mobile Broadband

Australian Shepherd



- 4X4 MIMO LTE
- 4X4 MIMO WI-FI
- GPS
- IP67 RATED

Features

- 5G
- WI-FI 6
- 600 MHz - 6 GHz*
- HIGH EFFICIENCY
- HIGH PERFORMANCE

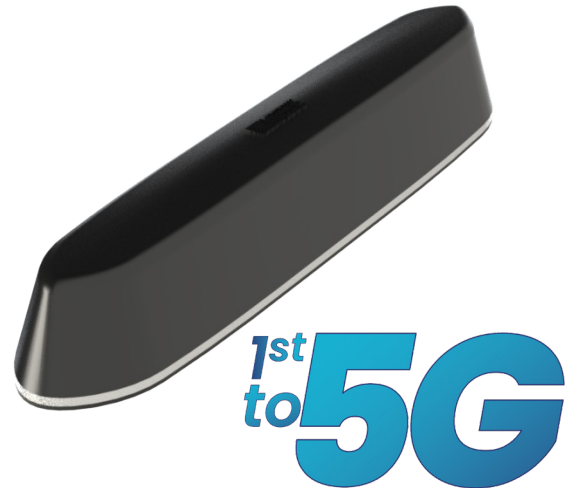
*See inside for details



Product Description

The Australian Shepherd series antennas are high-performance, 5G, 600 MHz - 6GHz antennas, available with 4X4 MIMO LTE, 4X4 MIMO Wi-Fi and GPS. 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, non-discrete police vehicles. We have changed the shape to a low profile, low silhouette design while still producing the high gain that you would expect from a Parsec antenna.



Patent pending.

Frequency Ranges

LTE Frequency Range

617 - 894 MHz
1710 - 2700 MHz
3400 - 4000 MHz
5150 - 5925 MHz

WiFi Frequency Range

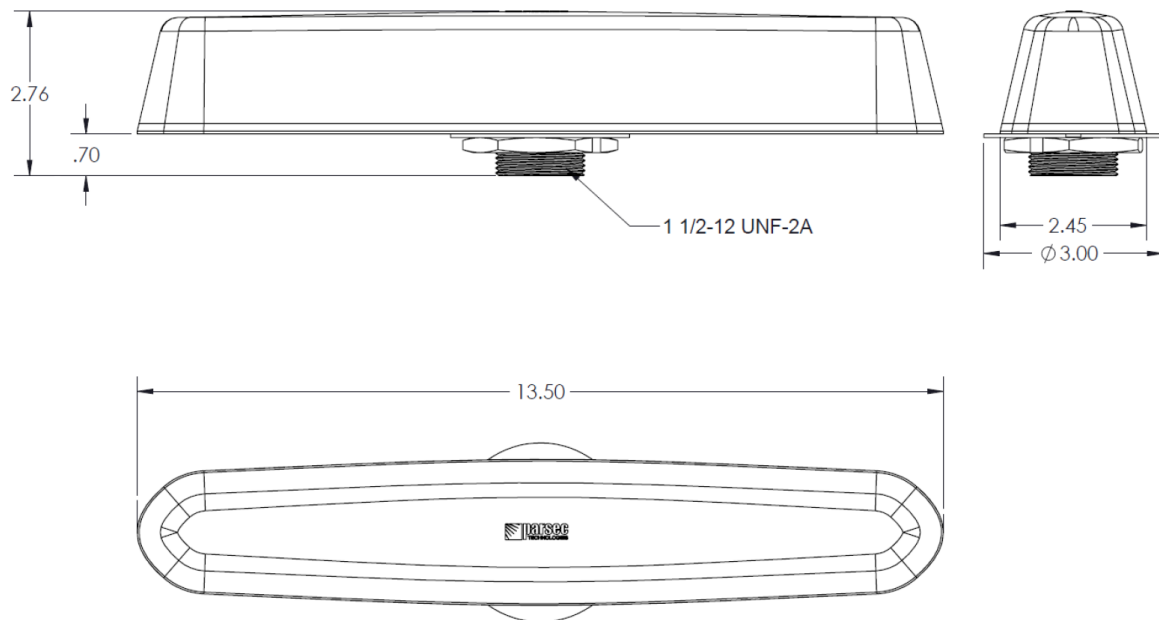
2400 - 2483.5 MHz
4900 - 5900 MHz

Specifications

LTE Bands (US Carriers)	
AT&T	2, 4, 5, 14, 17, 29, 30, 48, 66
Verizon	2, 4, 5, 13, 48, 66
T-Mobile	2, 4, 12, 25, 26, 41, 48, 66, 71
Mechanical	
Dimensions	2.01 inch height x 2.45 inch width 13.15 inch length
Mounting Hole	Single 1.5 inch
Environmental	
Operating Temperature	-40°C to 85°C
Ingress Protection	IP67 waterproof

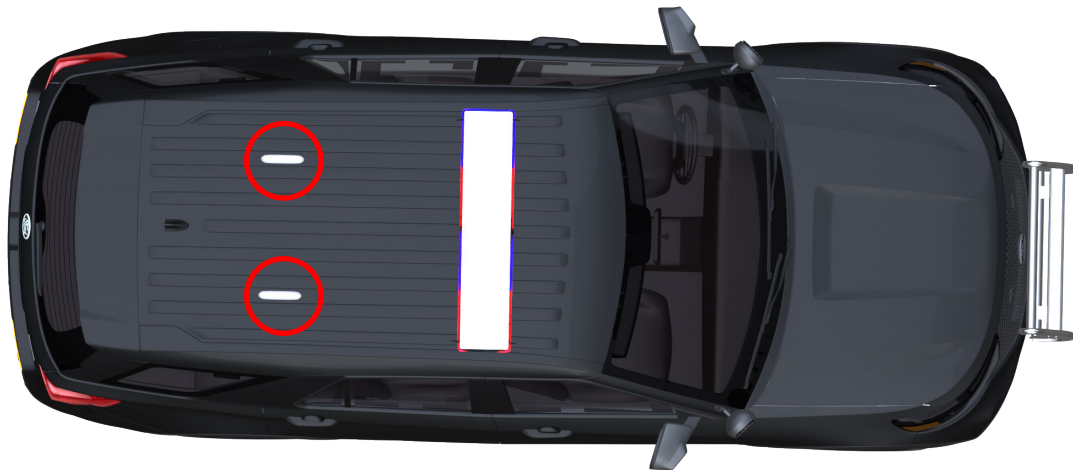


Product Dimensions



Product Renders

Discrete Placement



Height Clearance





Electrical Specifications

ID	Port	Parameters	Units	Typ.
Radiated Efficiency	LTE -1,2,3,4	617-663 MHz		40
	LTE -1,2,3,4	663 - 798 MHz		60
	LTE -1,2,3,4	798 - 894 MHz		50
	LTE -1,2,3,4	1710 - 2700 MHz		70
	LTE -1,2,3,4	3400 - 4000 MHz	%	65
	LTE -1,2,3,4	5150 - 5925 MHz		45
	GPS	1575.42 MHz		80
	Wi-Fi -1,2,3,4	2400 - 2483.5 MHz		60
	Wi-Fi -1,2,3,4	4900 - 5900 MHz		60
Peak Gain	LTE -1,2,3,4	617-663 MHz		3.5
	LTE -1,2,3,4	663 - 798 MHz		5.5
	LTE -1,2,3,4	798 - 894 MHz		4
	LTE -1,2,3,4	1710 - 2700 MHz		6.5
	LTE -1,2,3,4	3400 - 4000 MHz	dBi	7
	LTE -1,2,3,4	5150 - 5925 MHz		6
	GPS	1575.42 MHz		6
	Wi-Fi -1,2,3,4	2400 - 2483.5 MHz		10
	Wi-Fi -1,2,3,4	4900 - 5900 MHz		10
Return Loss (50 Ω)	LTE -1,2,3,4	617-663 MHz		6
	LTE -1,2,3,4	663 - 798 MHz		10
	LTE -1,2,3,4	798 - 894 MHz		6
	LTE -1,2,3,4	1710 - 2700 MHz		7
	LTE -1,2,3,4	3400 - 4000 MHz	dB	10
	LTE -1,2,3,4	5150 - 5925 MHz		6
	GPS	1575.42 MHz		12
	Wi-Fi -1,2,3,4	2400 - 2483.5 MHz		8
	Wi-Fi -1,2,3,4	4900 - 5900 MHz		10
Isolation	LTE -1,2,3,4	617-663 MHz		6
	LTE -1,2,3,4	663 - 798 MHz		6
	LTE -1,2,3,4	798 - 894 MHz		7
	LTE -1,2,3,4	1710 - 2700 MHz	dB	10
	LTE -1,2,3,4	3400 - 4000 MHz		18
	LTE -1,2,3,4	5150 - 5925 MHz		23
	Wi-Fi -1,2,3,4	2400 - 2483.5 MHz		11
	Wi-Fi -1,2,3,4	4900 - 5900 MHz		17
Polarization	LTE			Linear
	Wi-Fi			RHCP
Max Input Power	LTE, Wi-Fi		Watts	5
GNSS Preamp Gain	GPS		dB	28
GNSS Preamp Voltage	GPS		V	2.2 to 5.0
RF Connector	LTE, GPS			SMA(M)
	Wi-Fi			RP-SMA
RF Cable Type	LTE, Wi-Fi			LSR200
	GPS			LSR100
Notes:				
1. Electrical specifications based on antenna with a 2 ft. x 2 ft. external ground plane.				
2. Isolation and return loss does not include cable loss.				



Ordering

Standard Antennas

Configurations	Part Number	Description
4:1	PTA4AS4L15B	4 LTE, 15ft cable, Black
7:1	PTA7AS4L2WG15B	4 LTE, 2 Wi-Fi, GPS, 15ft cable, Black
9:1	PTA9AS4L4WG15B	4 LTE, 4 Wi-Fi, GPS, 15ft cable, Black

Non-Standard Antennas

Configurations	Part Number	Description
4:1	PTA4AS4L01B	4 LTE, 1ft cable, Black
	PTA4AS4L01W	4 LTE, 1ft cable, White
	PTA4AS4L03B	4 LTE, 3ft cable, Black
	PTA4AS4L03W	4 LTE, 3ft cable, White
	PTA4AS4L06B	4 LTE, 6ft cable, Black
	PTA4AS4L06W	4 LTE, 6ft cable, White
	PTA4AS4L15W	4 LTE, 15ft cable, White
5:1	PTA5AS4LG01B	4 LTE, GPS, 1ft cable, Black
	PTA5AS4LG01W	4 LTE, GPS, 1ft cable, White
	PTA5AS4LG03B	4 LTE, GPS, 3ft cable, Black
	PTA5AS4LG03W	4 LTE, GPS, 3ft cable, White
	PTA5AS4LG06B	4 LTE, GPS, 6ft cable, Black
	PTA5AS4LG06W	4 LTE, GPS, 6ft cable, White
	PTA5AS4LG15B	4 LTE, GPS, 15ft cable, Black
7:1	PTA7AS4L2WG01B	4 LTE, 2 Wi-Fi, GPS, 1ft cable, Black
	PTA7AS4L2WG01W	4 LTE, 2 Wi-Fi, GPS, 1ft cable, White
	PTA7AS4L2WG03B	4 LTE, 2 Wi-Fi, GPS, 3ft cable, Black
	PTA7AS4L2WG03W	4 LTE, 2 Wi-Fi, GPS, 3ft cable, White
	PTA7AS4L2WG06B	4 LTE, 2 Wi-Fi, GPS, 6ft cable, Black
	PTA7AS4L2WG06W	4 LTE, 2 Wi-Fi, GPS, 6ft cable, White
	PTA7AS4L2WG15W	4 LTE, 2 Wi-Fi, GPS, 15ft cable, White
8:1	PTA8AS4L2WBG01B	4 LTE, 2 Wi-Fi, BT, GPS, 1ft cable, Black
	PTA8AS4L2WBG01W	4 LTE, 2 Wi-Fi, BT, GPS, 1ft cable, White
	PTA8AS4L2WBG03B	4 LTE, 2 Wi-Fi, BT, GPS, 3ft cable, Black
	PTA8AS4L2WBG03W	4 LTE, 2 Wi-Fi, BT, GPS, 3ft cable, White
	PTA8AS4L2WBG06B	4 LTE, 2 Wi-Fi, BT, GPS, 6ft cable, Black
	PTA8AS4L2WBG06W	4 LTE, 2 Wi-Fi, BT, GPS, 6ft cable, White
	PTA8AS4L2WBG15B	4 LTE, 2 Wi-Fi, BT, GPS, 15ft cable, Black
	PTA8AS4L2WBG15W	4 LTE, 2 Wi-Fi, BT, GPS, 15ft cable, White



Non-Standard Antennas (Continued)

Configurations	Part Number	Description
9:1	PTA9AS4L4WG01B	4 LTE, 4 Wi-Fi, GPS, 1ft cable, Black
	PTA9AS4L4WG01W	4 LTE, 4 Wi-Fi, GPS, 1ft cable, White
	PTA9AS4L4WG03B	4 LTE, 4 Wi-Fi, GPS, 3ft cable, Black
	PTA9AS4L4WG03W	4 LTE, 4 Wi-Fi, GPS, 3ft cable, White
	PTA9AS4L4WG06B	4 LTE, 4 Wi-Fi, GPS, 6ft cable, Black
	PTA9AS4L4WG06W	4 LTE, 4 Wi-Fi, GPS, 6ft cable, White
	PTA9AS4L4WG15W	4 LTE, 4 Wi-Fi, GPS, 15ft cable, White

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

Hardware Accessories

Accessory	Part Number
Pole-mount bracket (makes antenna a fixed application)	PTA0149H
Magnetic mount- black	PTA0329
Star Washer	PTA0257
Ground plane with adhesive back, 2ft x 2ft, can be cut to size	PTA0587

Part Number Key

Part number example of a 9:1 Australian Shepherd antenna, black: PTA9AS4L4WG15B

Description	Abbreviation	Part Number
All PTA Series	PTA	PTA
Number of antennas in housing/configuration	9:1	PTA9
Antenna abbreviation for Australian Shepherd	AS	PTA9AS
Number of LTE Elements	#L	PTA9AS4L
Number of Wi-Fi Elements	#W	PTA9AS4L4W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PTA9AS4L4WG
Cable length measured in feet: 01=1', 15 =15'	01, 15, etc,	PTA9AS4L4WG15
Radome Color - B for Black	B	PTA9AS4L4WG15B
If SMA connector, simply leave blank		PTA9AS4L4WG15B

Custom connectors and cable kits are available. Please contact us for more information.



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