



Ideal for

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

Australian Shepherd



- 4X4 MIMO LTE
- 4X4 MIMO WIFI
- GPS
- IP67 RATED

Features

- 5G
- WIFI 6
- 600 MHz - 6 GHz*
- HIGH EFFICIENCY
- HIGH PERFORMANCE

*See inside for details

Product Description

The Australian Shepherd Series antennas are high-performance, 5G, CAT18 (600 MHz – 6GHz) antennas, available with 4X4 MIMO LTE, 4X4 MIMO WiFi, and GPS. The Australian Shepherd Series antennas are perfect for mobile and fixed wireless applications.

The Australian Shepherd Series are rugged, high-performance, IP67 rated antennas.

Patent pending.



Frequency Ranges

LTE Frequency Range

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

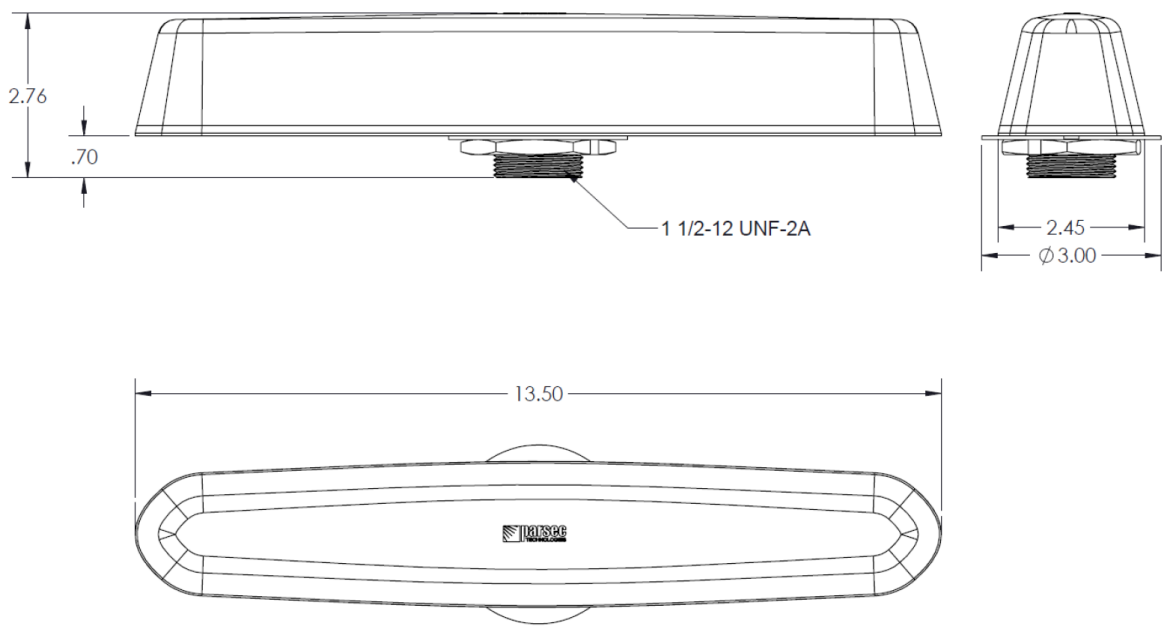
WiFi Frequency Range

2400 – 2483.5 MHz
4900 – 5900 MHz

LTE Bands (US Carriers)

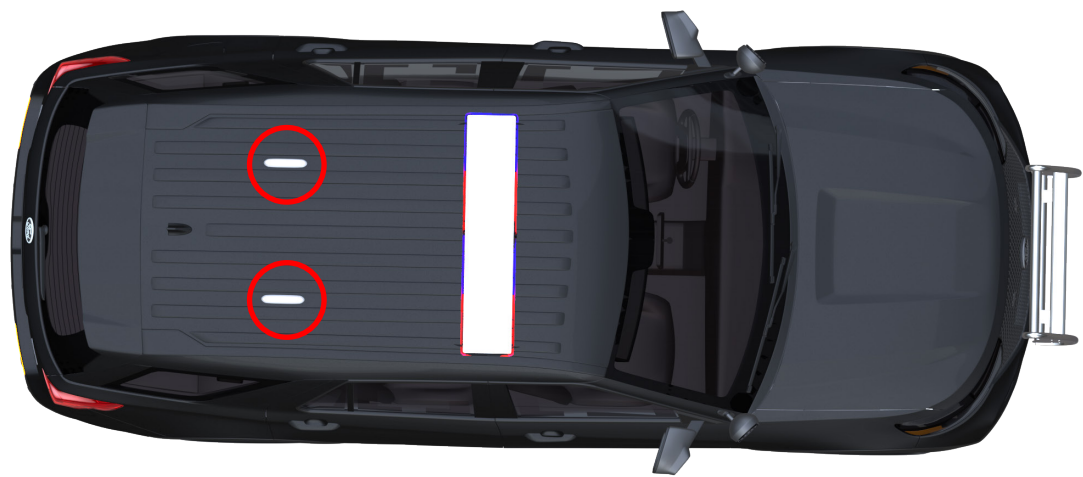
AT&T	2, 4, 5, 14, 17, 29, 30, 48, 66
Verizon	2, 4, 5, 13, 48, 66
T-Mobile	2, 4, 12, 25, 26, 41, 48, 66, 71
Mechanical	
Dimensions	2.01 inch height x 2.45 inch width 13.15 inch length
Mounting Hole	Single 1.5 inch
Environmental	
Operating Temperature	-40°C to 85°C
Ingress Protection	IP67 waterproof

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
	WiFi -1,2,3,4	2400 - 2483.5 MHz		60
	WiFi -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
	WiFi -1,2,3,4	2400 - 2483.5 MHz		10
	WiFi -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
	WiFi -1,2,3,4	2400 - 2483.5 MHz		8
	WiFi -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
	WiFi -1,2,3,4	2400 - 2483.5 MHz		11
	WiFi -1,2,3,4	4900 - 5900 MHz		17
Polarization	LTE WiFi			Linear RHCP
Max Input Power	LTE, WiFi		Watts	5
GNSS Preamp Gain	GPS		dB	28
GNSS Preamp Voltage	GPS		V	2.2 to 5.0
RF Connector	LTE, GPS WiFi			SMA(M) RP-SMA
RF Cable Type	LTE, WiFi GPS			LSR200 LSR100
Notes: - Electrical specifications based on antenna with a 2 ft. x 2 ft. external ground plane. - Isolation and return loss does not include cable loss.				

Ordering

Standard Antennas

Configurations	Part Number	Description
4:1	PTA4AS4L15B	4 LTE, 15ft cable, Black
8:1	PTA8AS4L2WBG15B	4 LTE, 2 WiFi, BT, GPS, 15ft cable, Black
9:1	PTA9AS4L4WG15B	4 LTE, 4 WiFi, 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 WiFi, GPS, 1ft cable, Black
	PTA7AS4L2WG01W	4 LTE, 2 WiFi, GPS, 1ft cable, White
	PTA7AS4L2WG03B	4 LTE, 2 WiFi, GPS, 3ft cable, Black
	PTA7AS4L2WG03W	4 LTE, 2 WiFi, GPS, 3ft cable, White
	PTA7AS4L2WG06B	4 LTE, 2 WiFi, GPS, 6ft cable, Black
	PTA7AS4L2WG06W	4 LTE, 2 WiFi, GPS, 6ft cable, White
	PTA7AS4L2WG15B	4 LTE, 2 WiFi, GPS, 15ft cable, Black
8:1	PTA8AS4L2WBG01B	4 LTE, 2 WiFi, BT, GPS, 1ft cable, Black
	PTA8AS4L2WBG01W	4 LTE, 2 WiFi, BT, GPS, 1ft cable, White
	PTA8AS4L2WBG03B	4 LTE, 2 WiFi, BT, GPS, 3ft cable, Black
	PTA8AS4L2WBG03W	4 LTE, 2 WiFi, BT, GPS, 3ft cable, White
	PTA8AS4L2WBG06B	4 LTE, 2 WiFi, BT, GPS, 6ft cable, Black
	PTA8AS4L2WBG06W	4 LTE, 2 WiFi, BT, GPS, 6ft cable, White
	PTA8AS4L2WBG15W	4 LTE, 2 WiFi, BT, GPS, 15ft cable, White

Non-Standard Antennas

(Continued)

Configurations	Part Number	Description
9:1	PTA9AS4L4WG01B	4 LTE, 4 WiFi, GPS, 1ft cable, Black
	PTA9AS4L4WG01W	4 LTE, 4 WiFi, GPS, 1ft cable, White
	PTA9AS4L4WG03B	4 LTE, 4 WiFi, GPS, 3ft cable, Black
	PTA9AS4L4WG03W	4 LTE, 4 WiFi, GPS, 3ft cable, White
	PTA9AS4L4WG06B	4 LTE, 4 WiFi, GPS, 6ft cable, Black
	PTA9AS4L4WG06W	4 LTE, 4 WiFi, GPS, 6ft cable, White
	PTA9AS4L4WG15W	4 LTE, 4 WiFi, 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 boot mount- black	PTA0329
Star Washer	PTA0257

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 WiFi 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, W for White	B or W	PTA9AS4L4WG15B
If SMA connector, simply leave blank		PTA9AS4L4WG15B

Custom connectors are available. Please contact us for more information.



Parsec Technologies
972-804-4600
support@parsec-t.com