



## *Ideal for*

- *First Responders*
- *Transportation/Fleet*
- *Remote Video Monitoring*
- *Kiosk Systems*

## ***Border Collie*** ***5:1 Antenna***



- *MIMO LTE*
- *MIMO WIFI*
- *GPS*
- *IP67 RATED*

## *Features*

- *5G*
- *CAT 18*
- *600 MHz - 6 GHz\**
- *HIGH EFFICIENCY*
- *HIGH PERFORMANCE*

*\*See inside for details*

## Product Description

The Border Collie antenna is a high-performance, 5G, CAT18 (600MHz - 6GHz) antenna, available with MIMO LTE, up to 3 WIFI and GPS. The Border Collie series antennas are rugged, high-performance, IP67 rated antennas.

**Patent pending.**



## Frequency Ranges

### LTE Frequency Range

617 - 894 MHz  
1710 - 2700 MHz  
3400 - 3800 MHz  
5150 - 5925 MHz

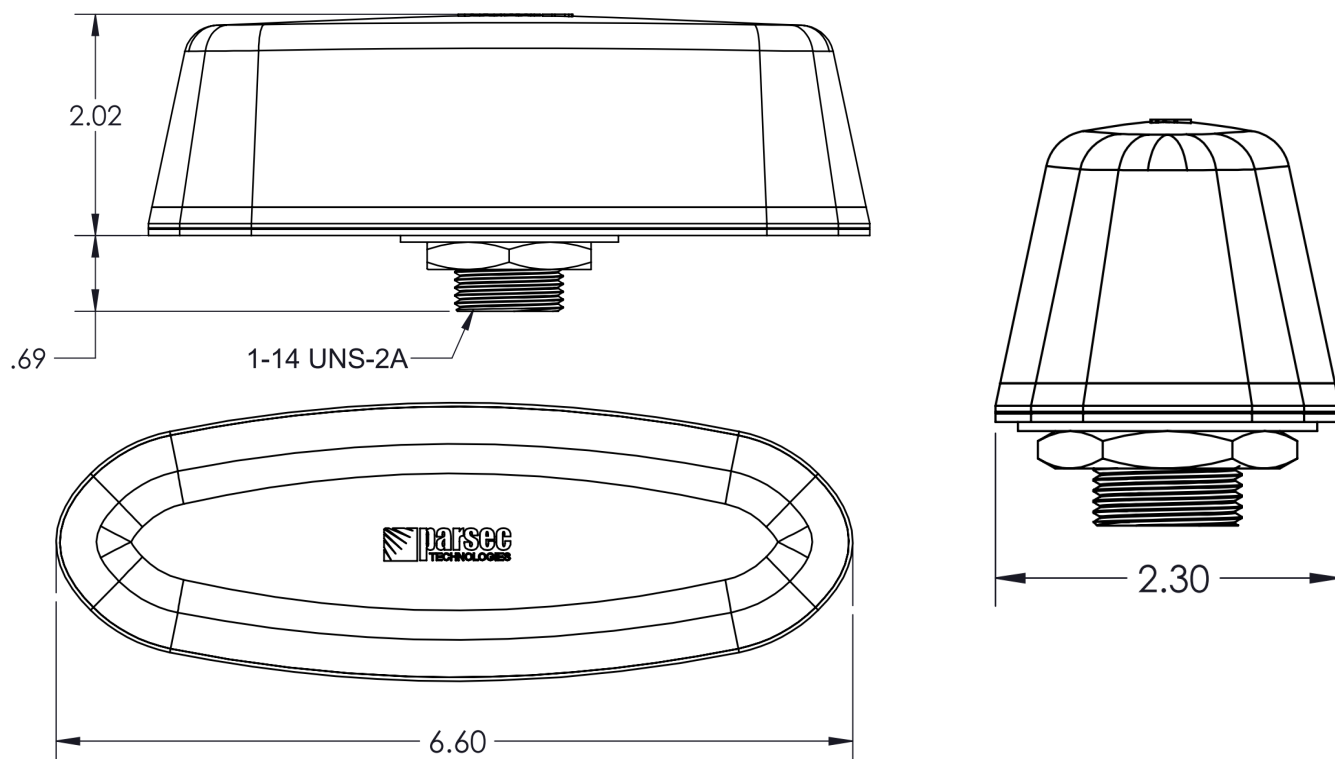
### WiFi Frequency Range

2400 - 2483.5 MHz  
4900 - 5900 MHz

## LTE Bands (US Carriers)

AT&T	2, 4, 5, 14, 17, 29, 30, 46, 48, 66
Verizon	2, 4, 5, 13, 46, 48, 66
T-Mobile	2,4,12,25,26,41,46,48,66,71
<b>Mechanical</b>	
Dimensions	6.6in. L x 2.3in. W x 2.02in. H
Mounting Hole	Single 1 inch
<b>Environmental</b>	
Operating Temperature	-40°C to 85°C
Ingress Protection	IP67 waterproof

## Product Dimensions



## Electrical Specifications

### Electrical Specifications

ID	Port	Parameters	Units	Typ.
<b>Radiated Efficiency</b>	LTE: 1,2	617 - 698 MHz	%	50
	LTE: 1,2	698 - 960 MHz		80
	LTE: 1,2	1710 - 2700 MHz		70
	LTE: 1,2	3400 - 4000 MHz		75
	LTE: 1,2	5150 - 5925 MHz		55
	GPS	1575.42 MHz		80
	WiFi: 1,2	2400 - 2483.5 MHz		60
	WiFi: 1,2	4900 - 5900 MHz		80
<b>Peak Gain</b>	LTE: 1,2	617 - 698 MHz	dBi	3
	LTE: 1,2	698 - 960 MHz		5
	LTE: 1,2	1710 - 2700 MHz		6
	LTE: 1,2	3400 - 4000 MHz		7
	LTE: 1,2	5150 - 5925 MHz		8
	GPS	1575.42 MHz		6
	WiFi: 1,2	2400 - 2483.5 MHz		6
	WiFi: 1,2	4900 - 5900 MHz		6
<b>Return Loss (50 Ω)</b>	LTE: 1,2	617 - 698 MHz	dB	4
	LTE: 1,2	698 - 960 MHz		7
	LTE: 1,2	1710 - 2700 MHz		7
	LTE: 1,2	3400 - 4000 MHz		12
	LTE: 1,2	5150 - 5925 MHz		7
	GPS	1575.42 MHz		12
	WiFi: 1,2	2400 - 2483.5 MHz		9
	WiFi: 1,2	4900 - 5900 MHz		10

## Electrical Specifications (Continued)

<b>Isolation</b>	LTE	617 - 698 MHz		8
	LTE	698 - 960 MHz		7
	LTE	1710 - 2700 MHz		15
	LTE	3400 - 4000 MHz	dB	24
	LTE	5150 - 5925 MHz		24
	WiFi	2400 - 2483.5 MHz		12
	WiFi	4900 - 5900 MHz		17
<b>Polarization</b>		LTE, WiFi GPS		Linear RHCP
<b>Max Input Power</b>	LTE, WiFi		Watts	5
<b>GNSS Preamp Gain</b>	GPS		dB	28
<b>GNSS Preamp Voltage</b>	GPS		V	2.2 to 5.0
<b>RF Connectors</b>	LTE, GPS			SMA(M)
	WiFi			RP-SMA
<b>Cables</b>	LTE, WiFi			LSR200
	GPS			LSR100
<b>Notes:</b> <ol style="list-style-type: none"> <li>1. Electrical specifications based on antenna with a 2 ft. x 2 ft. external ground plane.</li> <li>2. Isolation and return loss does not include cable loss.</li> </ol>				

# Ordering

## Standard Antennas

Configurations	Part Number	Description
2:1	PTA2BC2L03B	2 LTE, 3ft cable, Black
	PTA2BC2L06B	2 LTE, 6ft cable, Black
3:1	PTA3BC2LG03B	2 LTE, GPS, 3ft cable, Black
	PTA3BC2LG06B	2 LTE, GPS, 6ft cable, Black
5:1	PTA5BC2L2WG15B	2 LTE, 2 WiFi, GPS, 15ft cable, Black

## Non-Standard Antennas

Configurations	Part Number	Description
2:1	PTA2BC2L03W	2 LTE, 3ft cable, White
	PTA2BC2L06W	2 LTE, 6ft cable, White
	PTA2BC2L15B	2 LTE, 15ft cable, Black
	PTA2BC2L15W	2 LTE, 15ft cable, White
3:1	PTA3BC2LG03W	2 LTE, GPS, 3ft cable, White
	PTA3BC2LG06W	2 LTE, GPS, 6ft cable, White
	PTA3BC2LG15B	2 LTE, GPS, 15ft cable, Black
	PTA3BC2LG15W	2 LTE, GPS, 15ft cable, White
	PTA3BC2WG03B	2 WiFi, GPS, 3ft cable, Black
	PTA3BC2WG03W	2 WiFi, GPS, 3ft cable, White
	PTA3BC2WG06B	2 WiFi, GPS, 6ft cable, Black
	PTA3BC2WG06W	2 WiFi, GPS, 6ft cable, White
	PTA3BC2WG15B	2 WiFi, GPS, 15ft cable, Black
	PTA3BC2WG15W	2 WiFi, GPS, 15ft cable, White
5:1	PTA5BC2L2WG03B	2 LTE, 2 WiFi, GPS, 3ft cable, Black
	PTA5BC2L2WG03W	2 LTE, 2 WiFi, GPS, 3ft cable, White
	PTA5BC2L2WG06B	2 LTE, 2 WiFi, GPS, 6ft cable, Black
	PTA5BC2L2WG06W	2 LTE, 2 WiFi, GPS, 6ft cable, White
	PTA5BC2L2WG15W	2 LTE, 2 WiFi, GPS, 15ft cable, White

### Notes:

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



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