



The Border Collie PTA series antenna is a 5G, 2X2 MIMO cellular, Wi-Fi, with optional GPS and Bluetooth. The Border Collie is ideal for first responders, remote video monitoring, kiosk systems, NEMA enclosures, IoT, and industrial network solutions. The antenna requires a single 1-inch mounting hole for easy install with high power antennas providing high gain connectivity in a rugged, IP67 housing.

Patent Pending



1st  
to 5G



Configurations 2:1 | 3:1 | 4:1 | 5:1

First Responders | Remote Video Monitoring | Self-Service Kiosks

## Versatile

First Responders, IoT, & Industrial Networks

## High Data Speeds

Full 600 MHz to 6 GHz 5G Spectrum

## Durable

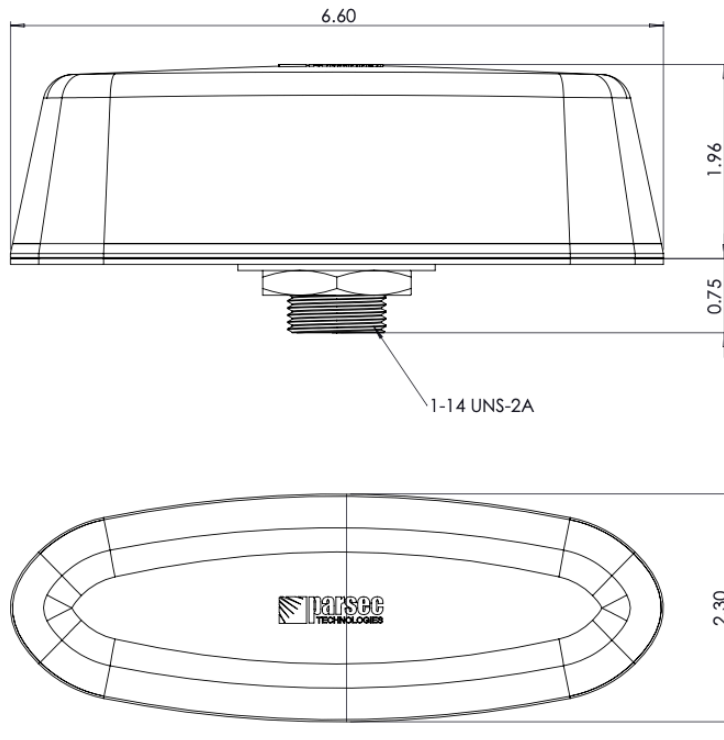
IP67 Rated for Power Wash Safe

- 2X2 MIMO CELLULAR
- UP TO 2X2 MIMO WI-FI
- GPS
- OMNI-DIRECTIONAL
- 600 MHz – 6 GHz
- 6.6 in X 2.3 in X 2.02 in
- WI-FI 6 COMPATIBLE

## Specifications

Frequencies			
4G/5G Cellular	698-960 MHz 1710-2700 MHz 3300-4000 MHz 5150-5925 MHz	Wi-Fi	2400-2483.5 MHz 4900-5900 MHz
4G/5G Bands			
North America	B2, B4, B5, B7, B12, B14, B17, B25, B26, B29, B30, B41, B46, B48, B66 n2, n5, n12, n25, n26, n41, n48, n66, n77		
EMEA	B1, B3, B7, B8, B20, B28, B42, B43, B46 n1, n3, n8, n28, n77, n78		
Mechanical		Environmental	
Dimension	6.6 inch X 2.3 inch X 1.96 inch	Operating Temperature	-30 °C to 85°C OR -22 °F to 180°F
Mounting	Single 1 inch	Ingress Protection	IP67
RF Cable Length	Choice of 3 or 15 foot cable		

## Dimensions

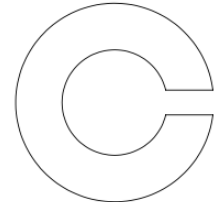


### Hardware Accessories Included

PTA0316-316



PTA0318-316



## Product Images



## Electrical Specifications

ID & Unit	Port	Parameters	Typ.
Radiated Efficiency (%)	CELL 1, 2	698-960 MHz	70
	CELL 1, 2	1710-2700 MHz	70
	CELL 1, 2	3300-4000 MHz	75
	CELL 1, 2	5150-5925 MHz	50
	Wi-Fi 1, 2	2400-2483.5 MHz	70
	Wi-Fi 1, 2	4900-5900 MHz	70
Peak Gain (dBi)	CELL 1, 2	698-960 MHz	5
	CELL 1, 2	1710-2700 MHz	6
	CELL 1, 2	3300-4000 MHz	7
	CELL 1, 2	5150-5925 MHz	8
	Wi-Fi 1, 2	2400-2483.5 MHz	7
	Wi-Fi 1, 2	4900-5900 MHz	9
Return Loss 50Ω (dB)	CELL 1, 2	698-960 MHz	7
	CELL 1, 2	1710-2700 MHz	15
	CELL 1, 2	3300-4000 MHz	24
	CELL 1, 2	5150-5925 MHz	22
	Wi-Fi 1, 2	2400-2483.5 MHz	12
	Wi-Fi 1, 2	4900-5900 MHz	20
Isolation (dB)	CELL	698-960 MHz	7
	CELL	1710-2700 MHz	15
	CELL	3300-4000 MHz	24
	CELL	5150-5925 MHz	22
	Wi-Fi	2400-2483.5 MHz	12

	Wi-Fi	4900-5900 MHz	20
<b>Polarization (dBi)</b>	CELL, Wi-Fi		Linear
<b>Max Input Power (Watts)</b>	CELL, Wi-Fi		10
<b>RF Connectors</b>	CELL, Wi-Fi		SMA(M) RPSMA(M)
<b>RF Cable Type</b>	CELL, Wi-Fi		LSR200
<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>			

## GNSS Electrical Specifications

ID & Unit	Port	Parameters	Typ.
<b>Antenna + Preamp Gain (dBic)</b>	GPS	1570-1581 MHz	33
<b>Polarization</b>	GPS		RHCP
<b>Filter Rejection (dB)</b>	GPS	1625 MHz	12
<b>GNSS Preamp Voltage (mA)</b>	GPS		2.2 to 5
<b>GNSS Preamp Current (mA)</b>	GPS		5 to 15
<b>RF Connector</b>	GPS		SMA(M)
<b>RF Cable Type</b>	GPS		LSR100

## Part Number Key

Part number example of a 5:1 Border Collie antenna, black: PTA5BC2L2WG15B

Description	Abbreviation	Part Number
All PTA Series	PTA	PTA
Number of Antennas in Housing/Configuration	5:1	PTA5
Antenna Abbreviation for Border Collie	BC	PTA5BC
Number of CELL Elements	#L	PTA5BC2L
Number of Wi-Fi Elements	#W	PTA5BC2L2W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PTA5BC2L2WG
Cable Length Measured in Feet: 01=1', 15=15'	01, 03, 06, 15, etc.,	PTA5BC2L2WG15
Radome Color - B for Black, W for White	B or W	PTA5BC2L2WG15B
If SMA Connector, Simply Leave Blank		PTA5BC2L2WG15B
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> .		

## *Ordering*

### *Standard Antennas*

Configurations	Part Number	Description
2:1	PTA2BC2L03B	2 Cellular, 3 ft Cable, Black
	PTA2BC2L06B	2 Cellular, 6 ft Cable, Black
	PTA2BC2L15B	2 Cellular, 15 ft Cable, Black
3:1	PTA3BC2LG03B	2 Cellular, GPS, 3 ft Cable, Black
	PTA3BC2LG06B	2 Cellular, GPS, 6 ft Cable, Black
5:1	PTA5BC2L2WG03B	2 Cellular, 2 Wi-Fi, GPS, 3 ft Cable, Black
	PTA5BC2L2WG15B	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, Black

### *Non-Standard Antennas*

Configurations	Part Number	Description
2:1	PTA2BC2L03W	2 Cellular, 3 ft Cable, White
	PTA2BC2L06W	2 Cellular, 6 ft Cable, White
	PTA2BC2L15W	2 Cellular, 15 ft Cable, White
3:1	PTA3BC2LG03W	2 Cellular, GPS, 3 ft Cable, White
	PTA3BC2LG06W	2 Cellular, GPS, 6 ft Cable, White
	PTA3BC2LG15B	2 Cellular, GPS, 15 ft Cable, Black
	PTA3BC2LG15W	2 Cellular, GPS, 15 ft Cable, White
4:1	PTA4BC2LWG03B	2 Cellular, Wi-Fi, GPS, 3 ft Cable, Black
	PTA4BC2LWG03W	2 Cellular, Wi-Fi, GPS, 3 ft Cable, White
	PTA4BC2LWG06B	2 Cellular, Wi-Fi, GPS, 6 ft Cable, Black
	PTA4BC2LWG06W	2 Cellular, Wi-Fi, GPS, 6 ft Cable, White
5:1	PTA5BC2L2WG03W	2 Cellular, 2 Wi-Fi, GPS, 3 ft Cable, White
	PTA5BC2L2WG06B	2 Cellular, 2 Wi-Fi, GPS, 6 ft Cable, Black
	PTA5BC2L2WG06W	2 Cellular, 2 Wi-Fi, GPS, 6 ft Cable, White
	PTA5BC2L2WG15W	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, White

## *Additional Hardware Accessories*

Accessory	Part Number
Pole Mount Bracket Assembly	PTA0637
L Bracket, Antenna Mount Assembly	PTA0756
Magnetic Mount	PTA0330
Replacement Rooftop Gasket	PTA0561
Hardware Kit for 1" Shaft - Nut/Washer	PTA0760
Star Washer	PTA0251
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**

**972-804-4600**

**[support@parsec-t.com](mailto:support@parsec-t.com)**