



The Belgian Shepherd PRO Series antenna is a 5G, 4X4 MIMO cellular, 4X4 Wi-Fi, omnidirectional with optional GPS and/ or Bluetooth. The Belgian Shepherd is designed for high performance of 5G frequencies for mobile emergency communications.

This PRO series IP67 rated antenna is our highest performing mobile unit, best suited for emergency fleet vehicles. Superior connectivity in both urban and rural regions, including areas with poor cellular infrastructure. Designed with an aerodynamic curved top and powerful gasket to withstand highway speeds and inclement weather.

Patent Pending



1st to 5G



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

Emergency Fleet Communications | Remote Video Monitoring | Mobile Broadband

Long Range

Connect in Urban & Rural Environments

High Data Speeds

Video Streaming On-the-Go

Durable

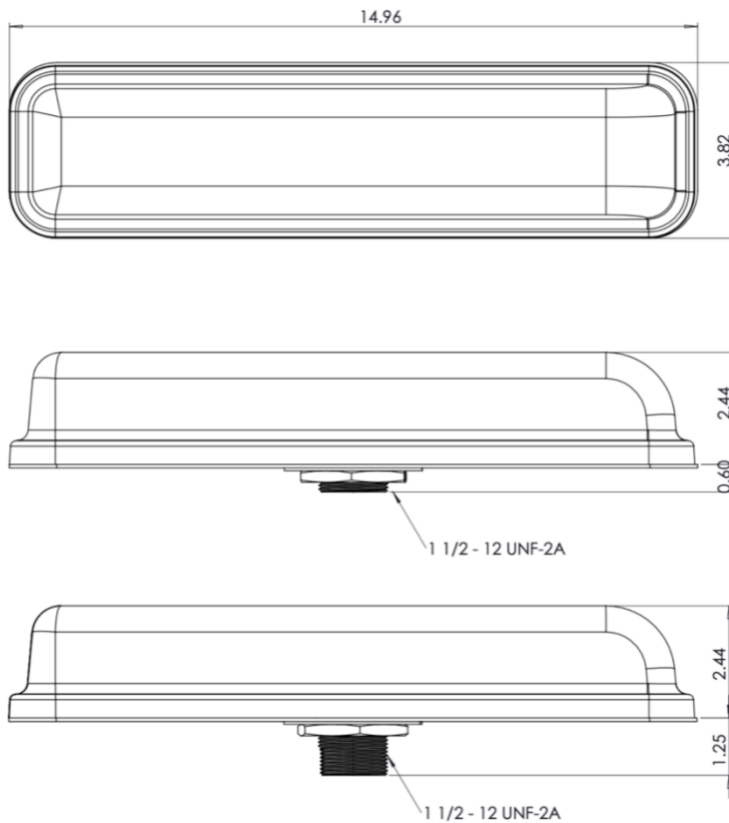
IP67 Rated & Power Wash Safe

- 4X4 MIMO CELLULAR
- UP TO 4X4 MIMO WI-FI
- OMNI-DIRECTIONAL
- OPTIONAL GPS/BLUETOOTH
- 600 MHz – 6 GHz
- 2.44 in X 3.82 in X 14.96 in
- WI-FI 6 COMPATIBLE

Specifications

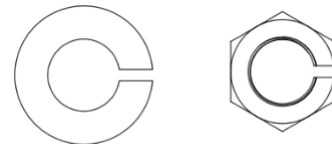
<i>Frequencies</i>			
4G/5G Cellular	617-894 MHz 1695-2700 MHz 3300-3800 MHz 5150-5925 MHz	Wi-Fi	2400-2483.5 MHz 4900-5900 MHz
<i>4G/5G Bands</i>			
North America	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B41, B46, B48, B66, B71 n2, n5, n12, n25, n26, n41, n48, n66, n71, n77		
EMEA	B1, B3, B7, B20, B28, B42, B43, B46 n1, n3, n28, n77, n78		
<i>Mechanical</i>		<i>Environmental</i>	
Dimensions	2.44 inch X 3.82 inch X 14.96 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

PTA0761



Product Images



Electrical Specifications

<i>ID & Unit</i>	<i>Port</i>	<i>Parameters</i>	<i>Typ.</i>
Radiated Efficiency (%)	CELL 1 thru 4	617-894 MHz	70
	CELL 1 thru 4	1710-2700 MHz	80
	CELL 1 thru 4	3400-4000 MHz	60
	CELL 1 thru 4	5150-5925 MHz	50
	GPS	1575.42 MHz	80
	Wi-Fi 1 thru 4	2400-2483.5 MHz	70
	Wi-Fi 1 thru 4	4900-5900 MHz	70
Peak Gain (dBi)	CELL 1 thru 4	617-894 MHz	5
	CELL 1 thru 4	1710-2700 MHz	7
	CELL 1 thru 4	3400-4000 MHz	7
	CELL 1 thru 4	5150-5925 MHz	5
	Wi-Fi 1 thru 4	2400-2483.5 MHz	7
	Wi-Fi 1 thru 4	4900-5900 MHz	8
	Return Loss 50Ω (dB)	CELL 1 thru 4	617-894 MHz
CELL 1 thru 4		1710-2700 MHz	10
CELL 1 thru 4		3400-4000 MHz	7
CELL 1 thru 4		5150-5925 MHz	5
GPS		1575.42 MHz	12
Wi-Fi 1 thru 4		2400-2483.5 MHz	10
Wi-Fi 1 thru 4		4900-5900 MHz	8

Isolation (dB)	CELL	617-894 MHz	7.5
	CELL	1710-2700 MHz	18
	CELL	3400-4000 MHz	20
	CELL	5150-5925 MHz	20
	Wi-Fi	2400-2483.5 MHz	17
	Wi-Fi	4900-5900 MHz	18
Polarization (dBi)	CELL, Wi-Fi GPS		Linear RHCP
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, return loss, and peak gain do 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 # example of a 8:1 Belgian Shepherd antenna, black: PRO8BS4L2WBG15BS

<i>Description</i>	<i>Abbreviation</i>	<i>Part Number</i>
All PRO Series	PRO	PRO
Number of Antennas in Housing/Configuration	8:1	PRO8
Antenna Abbreviation for Belgian Shepard	BS	PRO8BS
Number of CELL Elements	#L	PRO8BS4L
Number of Wi-Fi Elements	#W	PRO8BS4L2W
Number of Bluetooth Elements (usually only 1 Bluetooth per antenna, therefore we simply list B and no number)	B	PRO8BS4L2WB
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PRO8BS4L2WBG
Cable Length Measured in Feet: 01=1', 15=15'	01, 15, etc.,	PRO8BS4L2WBG15
Radome color - B for Black, W for White	B or W	PRO8BS4L2WBG15B
If SMA Connector, Simply Leave Blank		PRO8BS4L2WBG15B
Leave Blank for Standard 1.25" Bolt S=Short Bolt of 0.6"	S	PRO8BS4L2WBG15BS
Custom connectors and cable kits are available. Please contact us for more information at sales@parsec-t.com .		

Ordering

Standard Antennas

<i>Config.</i>	<i>Part Number</i>	<i>Description</i>
4:1	PRO4BS4L15B	4 Cellular, 15 ft Cable, Black
	PRO4BS4L15BS	4 Cellular, 15 ft Cable, Black, Short Bolt
7:1	PRO7BS4L2WG15B	4 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, Black
	PRO7BS4L2WG15BS	4 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, Black, Short Bolt
8:1	PRO8BS4L2WBG15B	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 15 ft Cable, Black
	PRO8BS4L2WBG15BS	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 15 ft Cable, Black, Short Bolt
9:1	PRO9BS4L4WG15B	4 Cellular, 4 Wi-Fi, GPS, 15 ft Cable, Black
	PRO9BS4L4WG15BS	4 Cellular, 4 Wi-Fi, GPS, 15 ft Cable, Black, Short Bolt

Non-Standard Antennas

<i>Config.</i>	<i>Part Number</i>	<i>Description</i>
4:1	PRO4BS4L01BS	4 Cellular, 1 ft Cable, Black, Short Bolt
	PRO4BS4L01BS-NF	4 Cellular, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO4BS4L01B	4 Cellular, 1 ft Cable, Black
	PRO4BS4L01B-NF	4 Cellular, 1 ft Cable, Black, N Type Female
	PRO4BS4L01WS	4 Cellular, 1 ft Cable, White, Short Bolt
	PRO4BS4L01WS-NF	4 Cellular, 1 ft Cable, White, Short Bolt, N Type Female
	PRO4BS4L01W	4 Cellular, 1 ft Cable, White
	PRO4BS4L01W-NF	4 Cellular, 1 ft Cable, White, N Type Female
	PRO4BS4L15W	4 Cellular, 15 ft Cable, White
	PRO4BS4L15WS	4 Cellular, 15 ft Cable, White, Short Bolt
5:1	PRO5BS4LG01BS	4 Cellular, GPS, 1 ft Cable, Black, Short Bolt
	PRO5BS4LG01BS-NF	4 Cellular, GPS, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO5BS4LG01B	4 Cellular, GPS, 1 ft Cable, Black
	PRO5BS4LG01B-NF	4 Cellular, GPS, 1 ft Cable, Black, N Type Female
	PRO5BS4LG01WS	4 Cellular, GPS, 1 ft Cable, White, Short Bolt
	PRO5BS4LG01WS-NF	4 Cellular, GPS, 1 ft Cable, White, Short Bolt, N Type Female
	PRO5BS4LG01W	4 Cellular, GPS, 1 ft Cable, White
	PRO5BS4LG01W-NF	4 Cellular, GPS, 1 ft Cable, White, N Type Female
	PRO5BS4LG15BS	4 Cellular, GPS, 15 ft Cable, Black, Short Bolt
	PRO5BS4LG15B	4 Cellular, GPS, 15 ft Cable, Black
	PRO5BS4LG15WS	4 Cellular, GPS, 15 ft Cable, White, Short Bolt
	PRO5BS4LG15W	4 Cellular, GPS, 15 ft Cable, White

7:1	PRO7BS4L2WG01BS	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black, Short Bolt
	PRO7BS4L2WG01BS-NF	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO7BS4L2WG01B	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black
	PRO7BS4L2WG01B-NF	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black, N Type Female
	PRO7BS4L2WG01WS	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White, Short Bolt
	PRO7BS4L2WG01WS-NF	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White, Short Bolt, N Type Female
	PRO7BS4L2WG01W	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White
	PRO7BS4L2WG01W-NF	4 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White, N Type Female
	PRO7BS4L2WG15W	4 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, White,
	PRO7BS4L2WG15WS	4 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, White, Short Bolt
8:1	PRO8BS4L2WBG01B	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 1 ft Cable, Black
	PRO8BS4L2WBG01BS	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 1 ft Cable, Black, Short Bolt
	PRO8BS4L2WBG01W	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 1 ft Cable, White
	PRO8BS4L2WBG01WS	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 1 ft Cable, White, Short Bolt
	PRO8BS4L2WBG15W	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 15 ft Cable, White
	PRO8BS4L2WBG15WS	4 Cellular, 2 Wi-Fi, Bluetooth, GPS, 15 ft Cable, White, Short Bolt
9:1	PRO9BS4L4WG01BS	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, Black, Short Bolt
	PRO9BS4L4WG01BS-NF	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, Black, Short Bolt, N Type Female
	PRO9BS4L4WG01B	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, Black
	PRO9BS4L4WG01B-NF	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, Black, N Type Female
	PRO9BS4L4WG01WS	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, White, Short Bolt
	PRO9BS4L4WG01WS-NF	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, White, Short Bolt, N Type Female
	PRO9BS4L4WG01W	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, White
	PRO9BS4L4WG01W-NF	4 Cellular, 4 Wi-Fi, GPS, 1 ft Cable, White, N Type Female
	PRO9BS4L4WG15W	4 Cellular, 4 Wi-Fi, GPS, 15 ft Cable, White
	PRO9BS4L4WG15WS	4 Cellular, 4 Wi-Fi, GPS, 15 ft Cable, White, Short Bolt

Additional Hardware Accessories

<i>Accessory</i>	<i>Part Number</i>
Rectangle Plate Pole Mount Bracket, 1.5" Hole	PTA0638
Customizable Pole Mount Bracket, 1.5" Hole	PTA0640
Roof Mount Bracket Assembly with L Bracket, 1.5" Hole	PTA0641
Magnetic Boot Mount – Black	PTA0329
Replacement Rooftop Gasket	PTA0292
Gasket Assembly – Dodge Charger	PTA0342
Gasket Assembly – Ford Explorer	PTA0341
Gasket Assembly – 2021 Ford Explorer	PTA0643
One-Side Adhesive Gasket	PTA0454
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



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