



The Belgian Shepherd PRO Series antenna is a 5G, 4X4 MIMO cellular, 4X4 Wi-Fi, omni-directional 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



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

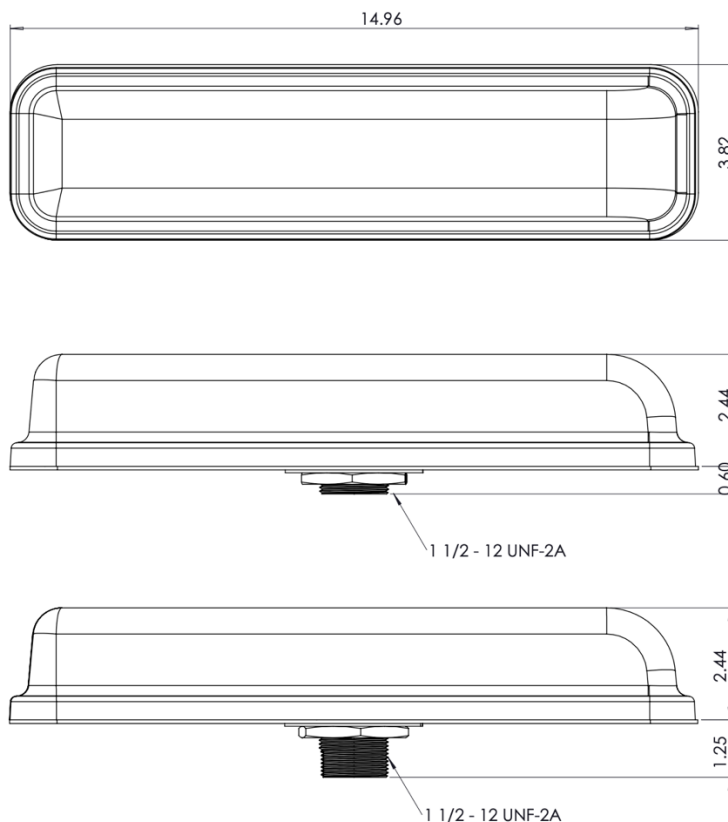
IP67 Rated & Power Wash Safe

- UP TO 4X4 MIMO CELLULAR
- UP TO 4X4 MIMO WI-FI
- OMNI-DIRECTIONAL
- OPTIONAL GPS/BLUETOOTH
- 600 MHz – 6 GHz
- 2.44 in X 3.75 in X 14.90 in
- WI-FI 6 COMPATIBLE

Specifications

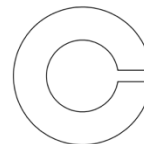
Frequencies			
4G/5G Cellular	617-894 MHz 1695-2700 MHz 3300-3800 MHz 5150-5925 MHz	Wi-Fi	2400-2483.5 MHz 4900-5900 MHz
4G/5G Bands			
North America	B2, B4, B5, B7, B12, B13, B14, B17, B25, B26, B29, B30, B41, B46, B48, B66, B71 n2, n5, n12, n25, n26, n41, n48, n66, n71, n77		
EMEA	B1, B3, B7, B20, B28, B42, B43, B46 n1, n3, n28, n77, n78		
Mechanical		Environmental	
Dimensions	2.44 inch X 3.75 inch X 14.90 inch	Operating Temperature	-40 °C to 85°C OR -40 °F to 180°F
Mounting	Single 1.5 inch	Ingress Protection	IP67 Waterproof

Dimensions



Hardware Accessories

PTA0319-316



PTA0317-316



Product Images



Electrical Specifications

ID & Unit	Port	Parameters	Typ.
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	8
	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 1 thru 4	617-663 MHz	7.5
	CELL 1 thru 4	663-798 MHz	18
	CELL 1 thru 4	798-894 MHz	20
	CELL 1 thru 4	1710-2700 MHz	20
	Wi-Fi 1 thru 4	2400-2483.5 MHz	17
	Wi-Fi 1 thru 4	4900-5900 MHz	18
Polarization (dBi)	CELL, Wi-Fi GPS		Linear RHCP
Max Input Power (Watts)	CELL, Wi-Fi		5
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 number example of a 9:1 Belgian Shepherd antenna, black: PRO9BS4L4WG15BS

Description	Abbreviation	Part Number
All PRO Series	PRO	PRO
Number of Antennas in Housing/Configuration	9:1	PRO9
Antenna Abbreviation for Belgian Shepard	BS	PRO9BS
Number of CELL Elements	#L	PRO9BS4L
Number of Wi-Fi Elements	#W	PRO9BS4L4W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PRO9BS4L4WG
Cable Length Measured in Feet: 01=1', 15=15'	01, 15, etc.,	PRO9BS4L4WG15
Radome color - B for Black, W for White	B or W	PRO9BS4L4WG15B
If SMA Connector, Simply Leave Blank		PRO9BS4L4WG15B
Leave Blank for Standard 1.25" Bolt S=Short Bolt of 0.6"	S	PRO9BS4L4WG15BS
Custom connectors and cable kits are available. Please contact us for more information		

Ordering Standard Antennas

Config.	Part Number	Description
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

Config.	Part Number	Description
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

Hardware Accessories

Accessory	Part Number
Pole Mount Bracket	PTA0638
Customizable Pole Mount Bracket	PTA0640
Roof Mount Bracket Assembly with L Bracket	PTA0641
Magnetic Boot Mount – Black	PTA0329
Replacement Rooftop Gasket	PTA0292
Gasket Assembly – Dodger Charger	PTA0342
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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