

The German Shepherd PRO series antenna is a 5G, 2X2 MIMO cellular, up to 2x2 MIMO Wi-Fi, with optional GPS. The German Shepherd is ideal for first responder fleets, remote video monitoring, and mobile critical network solutions. Provide your team with stable connectivity across the 600 MHz – 6 GHz 5G frequency range using LSR240 cable and patented antenna technology.

This IP67 rated antenna does not require any mounting holes and can be quickly installed and removed from steel surfaces due to its magnetic mount. This antenna also has an optional adhesive mount version that allows the antenna to be mounted on any flat surface.

Patent Pending



1st  
to **5G**

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



First Responder Fleets | Video Monitoring | Critical Communications

### Easy Mounting

Magnetic/Adhesive Mount on Flat Surface

### High Data Speeds

Full 600 MHz to 6 GHz 5G Spectrum

### Durable

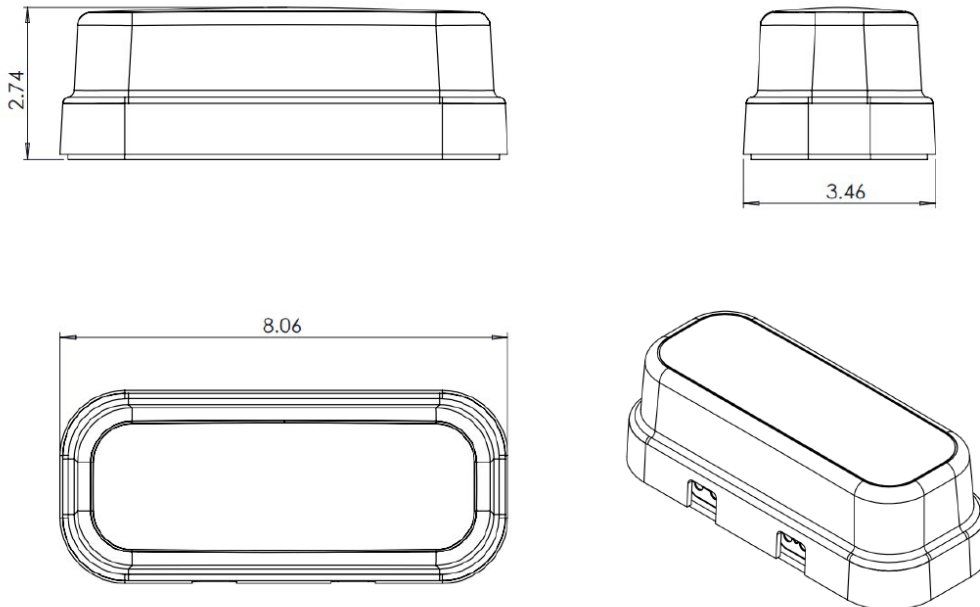
IP67 Rated for Power Wash Safe

- 2X2 MIMO CELLULAR
- UP TO 2X2 MIMO WI-FI
- GPS
- OMNI-DIRECTIONAL
- 600 MHz – 6 GHz
- 8.06 in X 3.46 in X 3.2 in
- WI-FI 6 COMPATIBLE

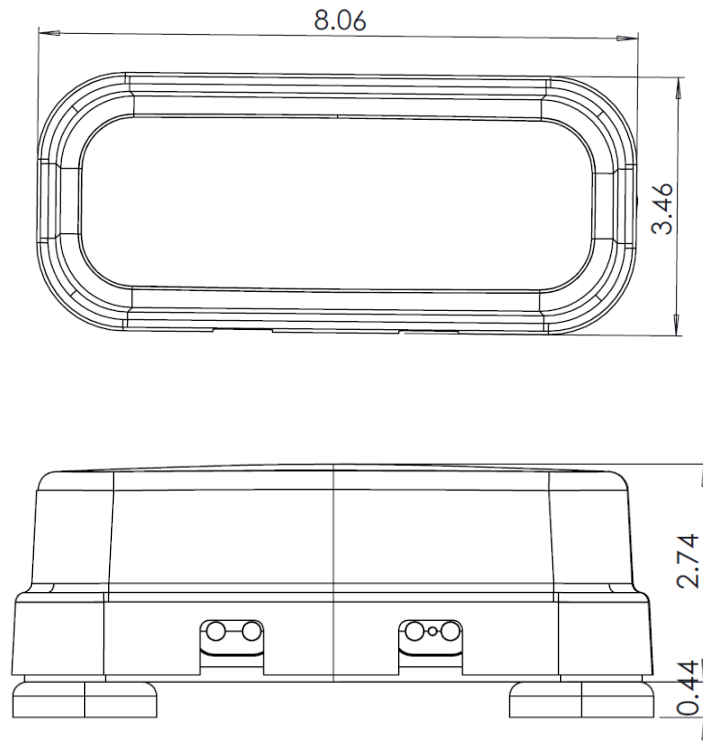
# *Specifications*

Frequencies			
4G/5G Cellular	617-698 MHz 698-894 MHz 1710-2700 MHz 3400-4000 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	
Dimension	8.06 inch X 3.46 inch X 3.2 inch	Operating Temperature	-30 °C to 85°C OR -22 °F to 180°F
Mounting	Magnetic, adhesive optional	Ingress Protection	IP67
RF Cable Length	Choice of 1 or 15 foot cable		

## *Dimensions (Adhesive Mount)*

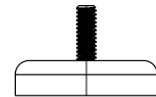


## *Dimensions (Magnetic Mount)*



Hardware Accessories Included

PTA0212-2



## *Product Images*



## *Electrical Specifications*

ID & Unit	Port	Parameters	Typ.
Radiated Efficiency (%)	CELL 1, 2	617-698 MHz	70
	CELL 1, 2	698-894 MHz	80
	CELL 1, 2	1710-2700 MHz	70
	CELL 1, 2	3400-4000 MHz	70
	CELL 1, 2	5150-5925 MHz	60
	Wi-Fi 1, 2	2400-2483.5 MHz	80
	Wi-Fi 1, 2	4900-5900 MHz	70
Peak Gain (dBi)	CELL 1, 2	617-698 MHz	3
	CELL 1, 2	698-894 MHz	5
	CELL 1, 2	1710-2700 MHz	6
	CELL 1, 2	3400-4000 MHz	6
	CELL 1, 2	5150-5925 MHz	8
	Wi-Fi 1, 2	2400-2483.5 MHz	5
	Wi-Fi 1, 2	4900-5900 MHz	6
Return Loss 50Ω (dB)	CELL 1, 2	617-698 MHz	7
	CELL 1, 2	698-894 MHz	12
	CELL 1, 2	1710-2700 MHz	6
	CELL 1, 2	3400-4000 MHz	7
	CELL 1, 2	5150-5925 MHz	7
	Wi-Fi 1, 2	2400-2483.5 MHz	12
	Wi-Fi 1, 2	4900-5900 MHz	7
Isolation (dB)	CELL	617-894 MHz	10
	CELL	1710-2700 MHz	15
	CELL	3400-4000 MHz	24
	CELL	5150-5925 MHz	19
	Wi-Fi	2400-2483.5 MHz	9
	Wi-Fi	4900-5900 MHz	18
Polarization (dBi)	CELL, Wi-Fi		Linear
Max Input Power (Watts)	CELL, Wi-Fi		5
RF Connectors	CELL Wi-Fi		SMA(M) RPSMA(M)
RF Cable Type	CELL, Wi-Fi		LSR240
<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.
Antenna + Preamp Gain (dBic)	GPS	1570-1581 MHz	33
Polarization	GPS		RHCP
Filter Rejection (dB)	GPS	1625 MHz	12
GNSS Preamp Voltage (mA)	GPS		2.2 to 5
GNSS Preamp Current (mA)	GPS		5 to 15
RF Connector	GPS		SMA(M)
RF Cable Type	GPS		LSR100

## *Part Number Key*

*Part number example of a 5:1 German Shepherd antenna, black: PRO5GS2L2WG15B*

Description	Abbreviation	Part Number
All PRO Series	PRO	PRO
Number of Antennas in Housing/Configuration	5:1	PRO5
Antenna Abbreviation for German Shepherd	GS	PRO5GS
Number of CELL Elements	#L	PRO5GS2L
Number of Wi-Fi Elements	#W	PRO5GS2L2W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PRO5GS2L2WG
Cable Length Measured in Feet: 01=1', 15=15'	01, 03, 06, 15, etc.,	PRO5GS2L2WG15
Radome Color - B for Black, W for White	B or W	PRO5GS2L2WG15B
If SMA Connector, Simply Leave Blank		PRO5GS2L2WG15B
If Adhesive Mount	A	PRO5GS2L2WG15BA
<b>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>.</b>		

## *Ordering*

### *Standard Antennas*

Configurations	Part Number	Description
5:1	PRO5GS2L2WG15B	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, Black

## *Non-Standard Antennas*

Configurations	Part Number	Description
<b>2:1</b>	PRO2GS2L01B	2 Cellular, 1 ft Cable, Black
	PRO2GS2L01W	2 Cellular, 1 ft Cable, White
	PRO2GS2L15B	2 Cellular, 15 ft Cable, Black
	PRO2GS2L15W	2 Cellular, 15 ft Cable, White
<b>3:1</b>	PRO3GS2LG01B	2 Cellular, GPS, 1 ft Cable, Black
	PRO3GS2LG01W	2 Cellular, GPS, 1 ft Cable, White
	PRO3GS2LG15B	2 Cellular, GPS, 15 ft Cable, Black
	PRO3GS2LG15W	2 Cellular, GPS, 15 ft Cable, White
<b>4:1</b>	PRO4GS2L2W01B	2 Cellular, 2 Wi-Fi, 1 ft Cable, Black
	PRO4GS2L2W01W	2 Cellular, 2 Wi-Fi, 1 ft Cable, White
	PRO4GS2L2W15B	2 Cellular, 2 Wi-Fi, 15 ft Cable, Black
	PRO4GS2L2W15W	2 Cellular, 2 Wi-Fi, 15 ft Cable, White
<b>5:1</b>	PRO5GS2L2WG01B	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, Black
	PRO5GS2L2WG01W	2 Cellular, 2 Wi-Fi, GPS, 1 ft Cable, White
	PRO5GS2L2WG15W	2 Cellular, 2 Wi-Fi, GPS, 15 ft Cable, White

## *Additional Hardware Accessories*

Accessory	Part Number
Replacement Rooftop Gasket	PTA0150
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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