

## Rottweiler PRO Series

### Ideal for:

- Transportation/Fleet
- FirstNet/First Responders
- Remote Video Monitoring
- Mobile Broadband



- MIMO LTE
- UP to 3 WIFI
- GPS
- IP67 RATED

### Features

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

\*See inside for details



## Product Description

The Rottweiler PRO Series antennas are high-performance, 5G, CAT18 (600MHz - 6GHz) antennas. The Rottweiler antennas are perfect for FirstNet, first responders, critical communications, transportation/fleet, remote video monitoring, and mobile broadband.

The Rottweiler Series are low profile, high-performance, external antennas available with MIMO LTE, up to 3 WiFi, and GPS. **Patent pending.**



## Frequency Ranges

### LTE frequency range

- 617 – 894 MHz
- 1710 – 2700 MHz
- 3400 – 3800 MHz (CBRS)
- 5150 – 5925 MHz (LTE LAA)

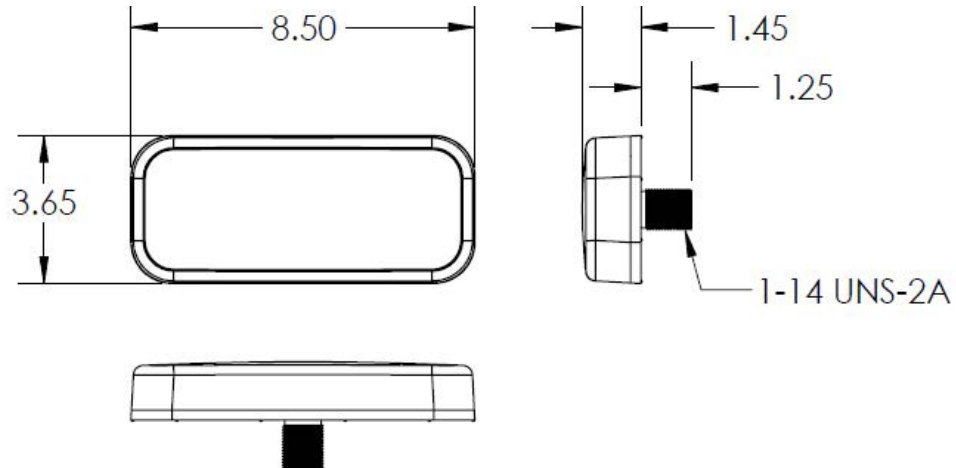
### WiFi frequency range

- 2400 – 2483.5 MHz
- 4900 – 5900 MHz

## LTE Bands (US Carriers)

AT&T	2, 4, 5, 14, 17, 29, 30, 48, 66
Verizon	2, 4, 5, 13, 48, 66
T-Mobile	2, 4, 12, 48, 66
Sprint	2, 25, 26, 41, 48
<b>Mechanical</b>	
Dimensions	8.5 x 3.65 x 1.45 inches
Mounting Hole	Single 1 inch
<b>Environmental</b>	
Operating Temperature	-40°C to 85°C
Ingress Protection	IP67 waterproof

## Product Dimensions



## Electrical Specifications

ID	Port	Parameters	Units	Typ.
Radiated Efficiency	LTE-1,2	617 – 894 MHz	%	60
	LTE-1,2	1710 – 2700 MHz		70
	LTE-1,2	3400 – 3800 MHz		60
	LTE-1,2	5150 – 5925 MHz		70
	GPS	1575.42MHz		80
	WiFi-1,2	2400 – 2483.5 MHz		70
	WiFi-1,2	4900 – 5900 MHz		70
Peak Gain	LTE-1,2	617 – 894 MHz	dBi	1.8
	LTE-1,2	1710 – 2700 MHz		6.9
	LTE-1,2	3400 – 3800 MHz		8.4
	LTE-1,2	5150 – 5925 MHz		6.2
	GPS	1575.42MHz		6.0
	WiFi-1,2	2400 – 2483.5 MHz		5.8
	WiFi-1,2	4900 – 5900 MHz		7.9
Return Loss (50 $\Omega$ )	LTE-1,2	617 – 894 MHz	dB	5
	LTE-1,2	1710 – 2700 MHz		8
	LTE-1,2	3400 – 3800 MHz		5
	LTE-1,2	5150 – 5925 MHz		9
	GPS	1575.42MHz		12
	WiFi-1,2	2400 – 2483.5 MHz		14
	WiFi-1,2	4900 – 5900 MHz		9
Isolation	LTE-1 to 2	617 – 894 MHz	dB	13
	LTE-1 to 2	1710 – 2700 MHz		21
	LTE-1 to 2	3400 – 3800 MHz		21
	WiFi-1,2,3	2400 – 2483.5 MHz		13
	WiFi-1,2,3	4900 – 5900 MHz		18

# Electrical Specifications

(Continued)

Polarization	LTE, WiFi GPS		Linear RHCP
Max Input Power	LTE, WiFi	Watts	5
GNSS Preamp Gain	GPS	dB	28
GNSS Preamp Voltage	GPS	V	2.2 to 5.0
RF Connectors	LTE, GPS WiFi		SMA(M) RP-SMA
Cables	LTE, WiFi GPS		LMR200 LMR100

# Ordering

## Standard Antennas

Standard Rottweiler antennas come in either a 1.25" bolt length or 0.6" short bolt (S), with SMA connectors, 1' or 15' cable, and in black or white. N female connectors = NF, and N males connectors = NM

Configurations	Part Number	Description
2:1	PRO2R2L01B	2 LTE, 1' cable, black
	PRO2R2L01BS	2 LTE, 1' cable, short bolt, black
	PRO2R2L01B-NF	2 LTE, 1' cable, N type female, black
	PRO2R2L01BS-NF	2 LTE, 1' cable, short bolt, N type female, black
	PRO2R2L01B-NM	2 LTE, 1' cable, N type male, black
	PRO2R2L01BS-NM	2 LTE, 1' cable, short bolt, N type male, black
	PRO2R2L01W	2 LTE, 1' cable, white
	PRO2R2L01WS	2 LTE, 1' cable, short bolt, white
	PRO2R2L01W-NF	2 LTE, 1' cable, N type female, white
	PRO2R2L0WS-NF	2 LTE, 1' cable, short bolt, N type female, white
	PRO2R2L01W-NM	2 LTE, 1' cable, N type male, white
	PRO2R2L01WS-NM	2 LTE, 1' cable, short bolt, N type male, white
	PRO2R2L15B	2 LTE, 15' cable, black
	PRO2R2L15BS	2 LTE, 15' cable, short bolt, black
	PRO2R2L15W	2 LTE, 15' cable, white
	PRO2R2L15WS	2 LTE, 15' cable, short bolt, white
3:1	PRO3R2LG01B	2 LTE, GPS, 1' cable, black
	PRO3R2LG01BS	2 LTE, GPS, 1' cable, short bolt, black
	PRO3R2LG01B-NF	2 LTE, GPS, 1' cable, N type female, black
	PRO3R2LG01BS-NF	2 LTE, GPS, 1' cable, short bolt, N type female, black
	PRO3R2LG01B-NM	2 LTE, GPS, 1' cable, N type male, black
	PRO3R2LG01BS-NM	2 LTE, GPS, 1' cable, short bolt, N type male, black
	PRO3R2LG01W	2 LTE, GPS, 1' cable, white
	PRO3R2LG01WS	2 LTE, GPS, 1' cable, short bolt, white
	PRO3R2LG01W-NF	2 LTE, GPS, 1' cable, N type female, white
	PRO3R2LG0WS-NF	2 LTE, GPS, 1' cable, short bolt, N type female, white
	PRO3R2LG01W-NM	2 LTE, GPS, 1' cable, N type male, white
	PRO3R2LG01WS-NM	2 LTE, GPS, 1' cable, short bolt, N type male, white
	PRO3R2LG15B	2 LTE, GPS, 15' cable, black
	PRO3R2LG15BS	2 LTE, GPS, 15' cable, short bolt, black
	PRO3R2LG15W	2 LTE, GPS, 15' cable, white
	PRO3R2LG15WS	2 LTE, GPS, 15' cable, short bolt, white
4:1	PRO4R2L2W01B	2 LTE, 2 WiFi, 1' cable, black
	PRO4R2L2W01BS	2 LTE, 2 WiFi, 1' cable, short bolt, black
	PRO4R2L2W01W	2 LTE, 2 WiFi, 1' cable, white
	PRO4R2L2W01WS	2 LTE, 2 WiFi, 1' cable, short bolt, white
	PRO4R2L2W15B	2 LTE, 2 WiFi, 15' cable, black
	PRO4R2L2W15BS	2 LTE, 2 WiFi, 15' cable, short bolt, black
	PRO4R2L2W15W	2 LTE, 2 WiFi, 15' cable, white
	PRO4R2L2W15WS	2 LTE, 2 WiFi, 15' cable, short bolt, white
5:1	PRO5R2L2WG01B	2 LTE, 2 WiFi, GPS, 1' cable, black
	PRO5R2L2WG01BS	2 LTE, 2 WiFi, GPS, 1' cable, short bolt, black
	PRO5R2L2WG01W	2 LTE, 2 WiFi, GPS, 1' cable, white
	PRO5R2L2WG01WS	2 LTE, 2 WiFi, GPS, 1' cable, short bolt, white
	PRO5R2L2WG15B	2 LTE, 2 WiFi, GPS, 15' cable, black
	PRO5R2L2WG15BS	2 LTE, 2 WiFi, GPS, 15' cable, short bolt, black
	PRO5R2L2WG15W	2 LTE, 2 WiFi, GPS, 15' cable, white
	PRO5R2L2WG15WS	2 LTE, 2 WiFi, GPS, 15' cable, short bolt, white

## Standard Antennas

(Continued)

Standard Rottweiler antennas come in either a 1.25" bolt length or 0.6" short bolt (S), with SMA connectors, 1' or 15' cable, and in black or white. N female connectors = NF, and N males connectors = NM

Configurations	Part Number	Description
6.1	PRO6R2L3WG01B	2 LTE, 3 WiFi, GPS, 1' cable, black
	PRO6R2L3WG01BS	2 LTE, 3 WiFi, GPS, 1' cable, short bolt, black
	PRO6R2L3WG01W	2 LTE, 3 WiFi, GPS, 1' cable, white
	PRO6R2L3WG01WS	2 LTE, 3 WiFi, GPS, 1' cable, short bolt, white
	PRO6R2L3WG15B	2 LTE, 3 WiFi, GPS, 15' cable, black
	PRO6R2L3WG15BS	2 LTE, 3 WiFi, GPS, 15' cable, short bolt, black
	PRO6R2L3WG15W	2 LTE, 3 WiFi, GPS, 15' cable, white
	PRO6R2L3WG15WS	2 LTE, 3 WiFi, GPS, 15' cable, short bolt, white

## Non-Standard Antennas

Non-standard Rottweiler antennas come in either a 1.25" bolt length or 0.6" short bolt (S), with SMA connectors, a 1' cable, and in black or white. N female connectors = NF, and N males connectors = NM

Configurations	Part Number	Description
4.1	PRO4R2L2W01B-NF	2 LTE, 2 WiFi, 1' cable, N type female, black
	PRO4R2L2W01BS-NF	2 LTE, 2 WiFi, 1' cable, short bolt, N type female, black
	PRO4R2L2W01B-NM	2 LTE, 2 WiFi, 1' cable, N type male, black
	PRO4R2L2W01BS-NM	2 LTE, 2 WiFi, 1' cable, short bolt, N type male, black
	PRO4R2L2W01W-NF	2 LTE, 2 WiFi, 1' cable, N type female, white
	PRO4R2L2W01WS-NF	2 LTE, 2 WiFi, 1' cable, short bolt, N type female, white
	PRO4R2L2W0W-NM	2 LTE, 2 WiFi, 1' cable, N type male, white
	PRO4R2L2W01WS-NM	2 LTE, 2 WiFi, 1' cable, short bolt, N type male, white
5.1	PRO4R2L2WG01B-NF	2 LTE, 2 WiFi, GPS, 1' cable, N type female, black
	PRO4R2L2WG01BS-NF	2 LTE, 2 WiFi, GPS, 1' cable, short bolt, N type female, black
	PRO4R2L2WG01B-NM	2 LTE, 2 WiFi, GPS, 1' cable, N type male, black
	PRO4R2L2WG01BS-NM	2 LTE, 2 WiFi, GPS, 1' cable, short bolt, N type male, black
	PRO4R2L2WG01W-NF	2 LTE, 2 WiFi, GPS, 1' cable, N type female, white
	PRO4R2L2WG01WS-NF	2 LTE, 2 WiFi, GPS, 1' cable, short bolt, N type female, white
	PRO4R2L2WG0W-NM	2 LTE, 2 WiFi, GPS, 1' cable, N type male, white
	PRO4R2L2WG01WS-NM	2 LTE, 2 WiFi, GPS, 1' cable, short bolt, N type male, white
6.1	PRO6R2L3WG01B-NF	2 LTE, 3 WiFi, GPS, 1' cable, N type female, black
	PRO6R2L3WG01BS-NF	2 LTE, 3 WiFi, GPS, 1' cable, short bolt, N type female, black
	PRO6R2L3WG01B-NM	2 LTE, 3 WiFi, GPS, 1' cable, N type male, black
	PRO6R2L3WG01BS-NM	2 LTE, 3 WiFi, GPS, 1' cable, short bolt, N type male, black
	PRO6R2L3WG01W-NF	2 LTE, 3 WiFi, GPS, 1' cable, N type female, white
	PRO6R2L3WG0WS-NF	2 LTE, 3 WiFi, GPS, 1' cable, short bolt, N type female, white
	PRO6R2L3WG01W-NM	2 LTE, 3 WiFi, GPS, 1' cable, N type male, white
	PRO6R2L3WG01WS-NM	2 LTE, 3 WiFi, GPS, 1' cable, short bolt, N type male, white

## Hardware Accessories

Accessory	Part Number
Pole-mount bracket (makes antenna a fixed application)	PTA0149
Magnetic boot mount - black	PTA0330

## Part Number Key

**Part number example of a 5:1 Rottweiler antenna, black:**  
PRO5R2L2WG15B

Description	Abbreviation	Part Number
All PRO Series	PRO	PRO
Number of antennas in housing/configuration	5:1	PRO5
Antenna abbreviation for Rottweiler	R	PRO5R
Number of LTE Elements	# L	PRO5R2L
Number of WiFi Elements	# W	PRO5R2L2W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PRO5R2L2WG
Cable length measured in feet: 01 = 1', 15 = 15'	01, 15, etc,	PRO5R2L2WG15
Radome Color - B for Black, W for White	B or W	PRO5R2L2WG15B
Bolt length standard is 1.25 inches leave blank for standard S = short bolt of 0.6 inches	Blank or S	PRO5R2L2WG15B
If SMA connector, simply leave blank		PRO5R2L2WG15B
N type female connector	-NF	PRO5R2L2WG15B-NF
N type male connector	-NM	PRO5R2L2WG15B-NM

Custom connectors are available. Please contact us for more information.