



Collie PRO Series



- MIMO LTE
- MIMO WIFI
- GPS
- IP67 RATED

Ideal for:

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

Features

- 698 MHz - 3800 MHz*
- HIGH EFFICIENCY
- HIGH PERFORMANCE

*See inside for details

Product Description

The Collie PRO Series antennas are perfect for FirstNet, first responders, critical communications, transportation/fleet, fixed wireless, and mobile broadband.

The Collie Series antennas are IP67 rated, rugged antennas for mobile or fixed wireless applications. The Series is available in MIMO LTE, MIMO WiFi, GPS, and 4X4 MIMO LTE. **Patent pending.**



Frequency Ranges

LTE frequency range

- 698 – 960 MHz
- 1710 – 2700 MHz
- 3300 – 3800 MHz

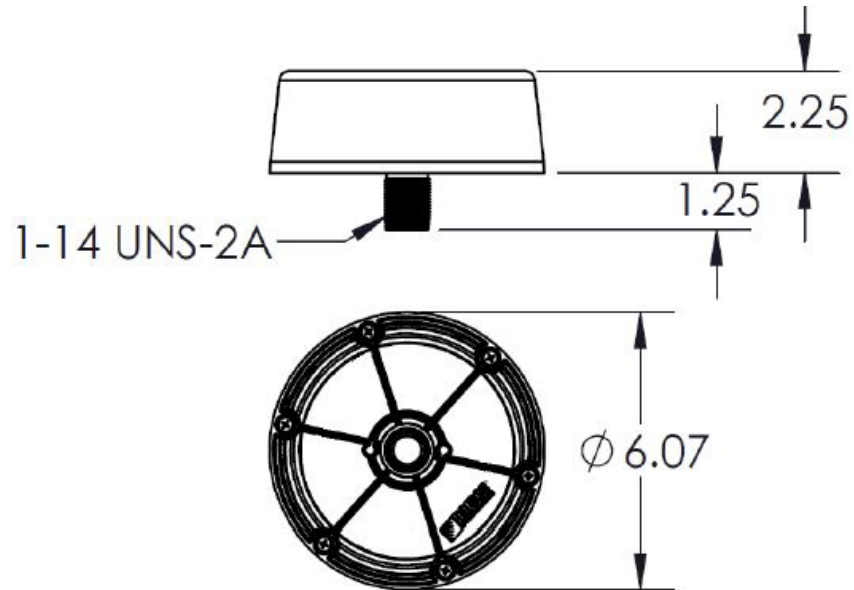
Wi-Fi frequency range

- 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
Mechanical	
Dimensions	6.07 inch diameter x 2.25 inch high
Mounting Hole	Single 1 inch
Environmental	
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	698 – 960 MHz	%	70
	LTE-1,2	1710 – 2700 MHz		70
	LTE-1,2	3300 – 3800 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	698 – 960 MHz	dBi	2.4
	LTE-1,2	1710 – 2700 MHz		5.0
	LTE-1,2	3300 – 3800 MHz		5.3
	GPS	1575.42MHz		6.0
	WiFi-1,2	2400 – 2483.5 MHz		2.4
	WiFi-1,2	4900 – 5900 MHz		6
Return Loss (50 Ω)	LTE-1,2	698 – 960 MHz	dB	7
	LTE-1,2	1710 – 2700 MHz		9
	LTE-1,2	3300 – 3800 MHz		11
	GPS	1575.42MHz		12
	WiFi-1,2	2400 – 2483.5 MHz		10
	WiFi-1,2	4900 – 5900 MHz		10
Isolation	LTE-1 to 2	698 – 960 MHz	dB	9
	LTE-1 to 2	1710 – 2700 MHz		15
	LTE-1 to 2	3300 – 3800 MHz		17
	WiFi-1 to 2	2400 – 2483.5 MHz		17
	WiFi-1 to 2	4900 – 5900 MHz		27
Polarization	LTE, WiFi			Linear
	GPS			RHCP
Max Input Power	LTE, WiFi		Watts	5

Electrical Specifications

(Continued)

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
Notes: <div>1. Electrical specifications based on antenna without an external ground plane</div> <div>2. Isolation does not include cable loss.</div>			

Ordering

Our Collie antennas come in 1' or 15' cable options and black or white radome.

Configurations	Order Number	Description
2:1	PRO2C2L01B	2 LTE, 1' cable, black radome
	PRO2C2L15B	2 LTE, 15' cable, black radome
	PRO2C2L01W	2 LTE, 1' cable, white radome
	PRO2C2L15W	2 LTE, 15' cable, white radome
3.1	PRO3C2LG01B	2 LTE, GPS, 1' cable, black radome
	PRO3C2LG15B	2 LTE, GPS, 15' cable, black radome
	PRO3C2LG01W	2 LTE, GPS, 1' cable, white radome
	PRO3C2LG15W	2 LTE, GPS, 15' cable, white radome
4.1	PRO4C2L2W01B	2 LTE, 2 WiFi, 1' cable, black radome
	PRO4C2L2W15B	2 LTE, 2 WiFi, 15' cable, black radome
	PRO4C2L2W01W	2 LTE, 2 WiFi, 1' cable, white radome
	PRO4C2L2W15W	2 LTE, 2 WiFi, 15' cable, white radome
5.1	PRO5C2L2WG01B	2 LTE, 2 WiFi, GPS, 1' cable, black radome
	PRO5C2L2WG15B	2 LTE, 2 WiFi, GPS, 15' cable, black radome
	PRO5C2L2WG01W	2 LTE, 2 WiFi, GPS, 1' cable, white radome
	PRO5C2L2WG15W	2 LTE, 2 WiFi, GPS, 15' cable, white radome
5.1	PRO5C4LG01B	4 LTE, GPS, 1' cable, black radome
	PRO5C4LG15B	4 LTE, GPS, 15' cable, black radome
	PRO5C4LG01W	4 LTE, GPS, 1' cable, white radome
	PRO5C4LG15W	4 LTE, GPS, 15' cable, white radome

Part Number Key

Part number example of a 4:1 Collie antenna, black:
PRO5C2L2WG15B

Description	Abbreviation	Part Number
All PRO Series	PRO	PRO
Number of antennas in housing/configuration	4:1	PRO4
Antenna abbreviation for Collie	C	PRO4C
Number of LTE Elements	# L	PRO4C2L
Number of WiFi Elements	# W	PRO4C2L2W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PRO4C2L2WG
Cable length measured in feet: 01 = 1', 15 = 15'	01, 15, etc,	PRO4C2L2WG15
Radome Color - B for Black, W for White	B or W	PRO4C2L2WG15B
If SMA connector, simply leave blank		PRO4C2L2WG15B
N connector	N	PRO4C2L2WG15BN
TNC connector	T	PRO4C2L2WG15BT