

## Chihuahua PRO Series



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

### Ideal for:

- External M2M
- IoT
- SCADA
- Industrial Monitoring
- Oil and Gas
- Kiosks, ATMs, etc.

### Features

- COMPACT
- TAMPER RESISTANT
- HIGH EFFICIENCY
- HIGH PERFORMANCE



## Product Description

The Chihuahua PRO Series antennas are perfect for IoT applications, including industrial monitoring, oil and natural gas pipelines, kiosks, ATMs, etc.

The Chihuahua Series antennas are compact, external, IP67 rated, rugged antennas that are available in multiple configurations, including MIMO LTE, up to 3 WiFi, and GPS. **Patent pending.**



## Frequency Ranges

### LTE frequency range

- 698 – 960 MHz
- 1710 – 2700 MHz

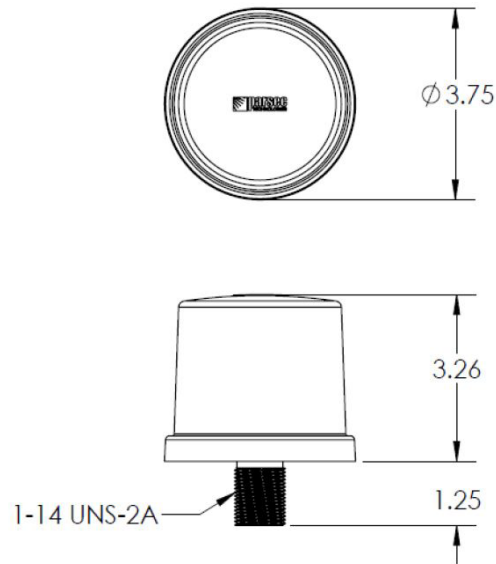
### WiFi frequency range

- 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	6.07 inch diameter x 2.25 inch high
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 thru 8	617 – 698 MHz	%	75
	LTE-1 thru 8	698 – 894 MHz		85
	LTE-1 thru 8	1695 – 2700 MHz		85
	LTE-1 thru 8	3400 – 3800 MHz		75
	LTE-1 thru 8	5150 – 5925 MHz		60
	WiFi-1,2,3,4	2400 – 2483.5 MHz		80
	WiFi-1,2,3,4	4900 – 5900 MHz		70
Peak Gain	LTE-1 thru 8	617 – 894 MHz	dBi	2
	LTE-1 thru 8	698 – 894 MHz		5
	LTE-1 thru 8	1695 – 2700 MHz		7
	LTE-1 thru 8	3400 – 3800 MHz		8
	LTE-1 thru 8	5150 – 5925 MHz		6
	WiFi-1,2,3,4	2400 – 2483.5 MHz		5
	WiFi-1,2,3,4	4900 – 5900 MHz		7
Return Loss (50 $\Omega$ )	LTE-1 thru 8	617 – 894 MHz	dB	7.5
	LTE-1 thru 8	698 – 894 MHz		11
	LTE-1 thru 8	1695 – 2700 MHz		11
	LTE-1 thru 8	3400 – 3800 MHz		9.5
	LTE-1 thru 8	5150 – 5925 MHz		6.5
	WiFi-1,2,3,4	2400 – 2483.5 MHz		15
	WiFi-1,2,3,4	4900 – 5900 MHz		9
Isolation	LTE	617 – 894 MHz	dB	13
	LTE	698 – 894 MHz		13
	LTE	1695 – 2700 MHz		20
	LTE	3400 – 3800 MHz		25
	LTE	5150 – 5925 MHz		30
	WiFi	2400 – 2483.5 MHz		30
	WiFi	4900 – 5900 MHz		35

# Electrical Specifications

(Continued)

Electrical Specifications (continued)			
GNSS Preamp Gain	GPS	dB	28
GNSS Preamp Voltage	GPS	V	2.2 to 5.0
RF Connectors	LTE, GPS		SMA(M)
	WiFi		RP-SMA
Cables	LTE, WiFi		LMR200
	GPS		LMR100
<b>Notes:</b> <ol style="list-style-type: none"><li>Electrical specifications based on antenna without an external ground plane</li><li>Isolation does not include cable loss.</li></ol>			

## Ordering

Our Chihuahua antennas come in 1' or 6' cable options and black or white radome.

Configurations	Order Number	Description
1:1	PRO1STL01B	1 LTE, 1' cable, black radome
	PRO1STL06B	1 LTE, 6' cable, black radome
	PRO1STL01W	1 LTE, 1' cable, white radome
	PRO1STL06W	1 LTE, 6 cable, white radome
2:1	PRO2ST2L01B	2 LTE, 1' cable, black radome
	PRO2ST2L06B	2 LTE, 6' cable, black radome
	PRO2ST2L01W	2 LTE, 1' cable, white radome
	PRO2ST2L06W	2 LTE, 6' cable, white radome
3:1	PRO3ST2LG01B	2 LTE, GPS, 1' cable, black radome
	PRO3ST2L2W06B	2 LTE, GPS, 6' cable, black radome
	PRO3ST2LG01W	2 LTE, GPS, 1' cable, white radome
	PRO3ST2LG06W	2 LTE, GPS, 6' cable, white radome
4:1	PRO4ST2L2W01B	2 LTE, 2 WiFi, 1' cable, black radome
	PRO4ST2L2W06B	2 LTE, 2 WiFi, 6' cable, black radome
	PRO4ST2L2W01W	2 LTE, 2 WiFi, 1' cable, white radome
	PRO4ST2L2W06W	2 LTE, 2 WiFi, 6' cable, white radome
5:1	PRO5ST2L2WG01B	2 LTE, 2 WiFi, GPS, 1' cable, black radome
	PRO5ST2L2WG06B	2 LTE, 2 WiFi, GPS, 6' cable, black radome
	PRO5ST2L2WG01W	2 LTE, 2 WiFi, GPS, 1' cable, white radome
	PRO5ST2L2WG06W	2 LTE, 2 WiFi, GPS, 6' cable, white radome
6:1	PRO6ST2L2WG01B	2 LTE, 3 WiFi, GPS, 1' cable, black radome
	PRO6ST2L2WG06B	2 LTE, 3 WiFi, GPS, 6' cable, black radome
	PRO6ST2L2WG01W	2 LTE, 3 WiFi, GPS, 1' cable, white radome
	PRO6ST2L2WG06W	2 LTE, 3 WiFi, GPS, 6' cable, white radome

## Part Number Key

**Part number example for a 6:1 Chihuahua antenna, black:**  
PRO6ST2L3WG06B

Description	Abbreviation	Part Number
All PRO Series	PRO	PRO
Number of antennas in housing/configuration	6:1	PRO6
Antenna abbreviation for Chihuahua	ST	PRO6ST
Number of LTE Elements	# L	PRO6ST2L
Number of WiFi Elements	# W	PRO6ST2L3W
Number of GPS Elements (usually only 1 GPS per antenna, therefore we simply list G and no number)	G	PRO6ST2L3WG
Cable length measured in feet: 01 = 1', 15 = 15'	01, 06, etc,	PRO6ST2L3WG06
Radome Color - B for Black, W for White	B or W	PRO6ST2L3WG06B
If SMA connector, simply leave blank		PRO6ST2L3WG06B
N connector	N	PRO6ST2L3WG06BN
TNC connector	T	PRO6ST2L3WG06BT