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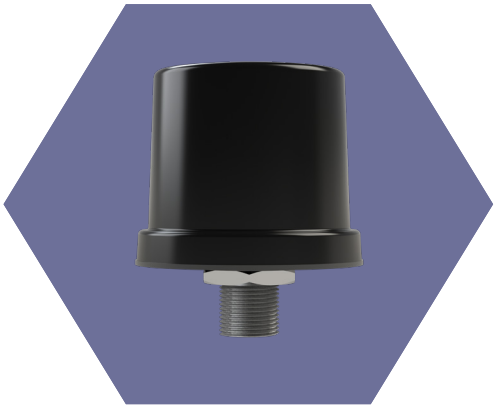
Chihuahua
PRO ST Series



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

Ideal for

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



Features

- 5G
- WIFI 6
- COMPACT
- TAMPER RESISTANT
- HIGH EFFICIENCY
- HIGH PERFORMANCE

Product Description



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

The Chihuahua PRO ST Series antennas are compact, eternal, 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

617 - 894 MHz
1710 - 2700 MHz
3400 - 4000 MHz
5150 - 5925 MHz

WiFi Frequency Range

2400 - 2483.5 MHz
4900 - 5900 MHz

LTE Bands
(US Carriers)

AT&T	2, 4, 5, 12, 14, 29, 30, 48, 66
Verizon	2, 4, 5, 13, 48, 66
T-Mobile	2, 4, 12, 25, 26, 41, 48, 66, 71
Mechanical	
Dimensions	3.75 inch diameter x 3.26 inch height
Mounting Hole	Single 1 inch
RF Cable Length	Choice of 1, 2, or 6 foot cables
Environmental	
Operating Temperature	-40°C to 85°C
Ingress Protection	IP67 waterproof

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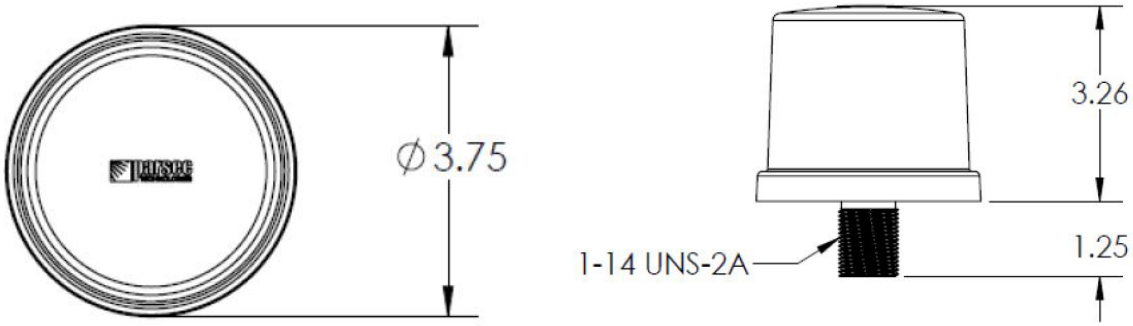
Product Dimensions



Electrical Specifications

Electrical Specifications

ID	Port	Parameters	Units	Typ.
Radiated Efficiency	LTE -1,2	617-894 MHz	%	80
	LTE -1,2	1710 - 2700 MHz		60
	LTE -1,2	3400 - 4000 MHz		80
	LTE -1,2	5150 - 5925 MHz		60
	GPS	1575.42 MHz		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	4.5
	LTE -1,2	1710 - 2700 MHz		4.5
	LTE -1,2	3400 - 4000 MHz		4.5
	LTE -1,2	5150 - 5925 MHz		6
	GPS	1575.42 MHz		6
	WIFI -1,2	2400 - 2483.5 MHz		2.2
	WIFI -1,2	4900 - 5900 MHz		4.5
Return Loss (50 Ω)	LTE -1,2	617-894 MHz	dB	10
	LTE -1,2	1710 - 2700 MHz		6
	LTE -1,2	3400 - 4000 MHz		10
	LTE -1,2	5150 - 5925 MHz		6
	GPS	1575.42 MHz		12
	WIFI -1,2	2400 - 2483.5 MHz		16
	WIFI -1,2	4900 - 5900 MHz		18
Isolation	WiFi-1 to 2	2400 – 2483.5 MHz	dB	15
	WiFi-1 to 2	4900 – 5900 MHz		15
Polarization	LTE, WiFi			Linear
	GPS			RHCP
Max Input Power	LTE, WiFi		Watts	5
GNSS Preamp Gain	GPS		dB	28
GNSS Preamp Voltage	GPS		V	2.2 to 5.0

Electrical Specifications

(Continued)

RF Connector	LTE, GPS WiFi	SMA(M) RP-SMA
RF Cable Type	LTE, WiFi GPS	LSR200 LSR100

Notes:

1. **Electrical specifications based on antenna with a 5 in. x 8 in. external ground plane.**
2. **Isolation does not include cable loss.**

Ordering

Standard Antennas

Configurations	Part Number	Description
2:1	PRO2ST2L06B	2 LTE, 6’ cable, Black
3:1	PRO3ST2LG06B	2 LTE, GPS, 6’ cable, Black

Non-Standard Antennas

Configurations	Part Number	Description
1:1	PRO1STL01B	1 LTE, 1’ cable, Black
	PRO1STL01W	1 LTE, 1’ cable, White
	PRO1STL06B	1 LTE, 6’ cable, Black
	PRO1STL06W	1 LTE, 6’ cable, White
2:1	PRO2ST2L01B	2 LTE, 1’ cable, Black
	PRO2ST2L01W	2 LTE, 1’ cable, White
	PRO2ST2L06W	2 LTE, 6’ cable, White
3:1	PRO3ST2LG01B	2 LTE, GPS, 1’ cable, Black
	PRO3ST2LG01W	2 LTE, GPS, 1’ cable, White
	PRO3ST2LG06W	2 LTE, GPS, 6’ cable, White
	PRO3ST2LG15B	2 LTE, GPS, 15’ cable, Black
4.1	PRO4ST2L2W01B	2 LTE, 2 WiFi, 1’ cable, Black
	PRO4ST2L2W01W	2 LTE, 2 WiFi, 1’ cable, White
	PRO4ST2L2W06B	2 LTE, 2 WiFi, 6’ cable, Black
	PRO4ST2L2W06W	2 LTE, 2 WiFi, 6’ cable, White
	PRO4ST2LWG02B	2 LTE, 1 WiFi, 1 GPS, 2’ cable, Black
	PRO4ST2LWG15B	2 LTE, 1 WiFi, 1 GPS, 15’ cable, Black
5.1	PRO5ST2L2WG01B	2 LTE, 2 WiFi, 1 GPS, 1’ cable, Black
	PRO5ST2L2WG01W	2 LTE, 2 WiFi, 1 GPS, 1’ cable, White
	PRO5ST2L2WG06B	2 LTE, 2 WiFi, 1 GPS, 6’ cable, Black
	PRO5ST2L2WG06W	2 LTE, 2 WiFi, 1 GPS, 6’ cable, White
	PRO5ST2L2WG15B	2 LTE, 2 WiFi, 1 GPS, 15’ cable, Black
	PRO5ST2LBWG01BD	2 LTE,BT, 1 WiFi, 1 GPS, 1’ cable, Black, Dell
	PRO5ST2LBWG03BD	2 LTE,BT, 1 WiFi, 1 GPS, 3’ cable, Black, Dell
	PRO5ST2LBWG06BD	2 LTE,BT, 1 WiFi, 1 GPS, 6’ cable, Black, Dell
	PRO5ST2LBWG01WD	2 LTE,BT, 1 WiFi, 1 GPS, 1’ cable, White, Dell
	PRO5ST2LBWG03WD	2 LTE,BT, 1 WiFi, 1 GPS, 3’ cable, White, Dell
	PRO5ST2LBWG06WD	2 LTE,BT, 1 WiFi, 1 GPS, 6’ cable, White, Dell
6:1	PRO6ST2L3WG01B	2 LTE, 3 WiFi, 1 GPS, 1’ cable, Black
	PRO6ST2L3WG01W	2 LTE, 3 WiFi, 1 GPS, 1’ cable, White
	PRO6ST2L3WG06B	2 LTE, 3 WiFi, 1 GPS, 6’ cable, Black
	PRO6ST2L3WG06W	2 LTE, 3 WiFi, 1 GPS, 6’ cable, White

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Hardware Accessories

Accessory	Part Number
Pole-mount bracket (makes antenna a fixed application)	PTA0149

Notes:

N type connector is recommended for outdoor usage due to it being waterproof. N type is also best used for cable runs longer than 25ft due to it being a stronger connection.

SMA connectors have a max torque of 3-5 inch lbs.

Part Number Key

Part number example for a 6:1 Chihuahua ST 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', 6 = 06'	01, 06, etc,	PRO6ST2L3WG06
Radome Color - B for Black, W for White	B or W	PRO6ST2L3WG06B
If Dell, add D, if not leave blank	D	PRO6ST2L3WG06B

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

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